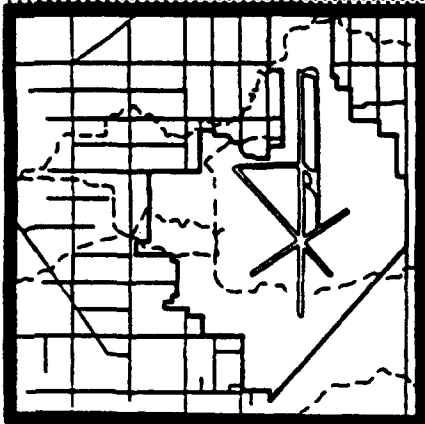


**AD-A276 993**



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**INSTALLATION RESTORATION PROGRAM (IRP)  
STAGE 3**



**DATA SUMMARY  
OCTOBER - DECEMBER 1993**

**for McCLELLAN AFB, CALIFORNIA**

**FINAL**

**DTIC  
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MAR 15 1994  
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**FEBRUARY 1994**

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McCLELLAN AFB, CALIFORNIA 95652-5990**

**United States Air Force  
Air Force Center for Environmental Excellence  
Environmental Services Office  
Environmental Restoration Division (AFCEE/ESR)  
Brooks Air Force Base, Texas 78235-5000**

**INSTALLATION RESTORATION PROGRAM (IRP)  
STAGE 3**

**GROUNDWATER SAMPLING AND ANALYSIS PROGRAM  
OCTOBER THROUGH DECEMBER 1993  
DATA SUMMARY**

**FINAL**

**94-08093**



**FOR**

**McCLELLAN AFB/EM  
McCLELLAN AFB, CALIFORNIA 95652-5990**

**February 1994**

**PREPARED BY:**

**Radian Corporation  
10389 Old Placerville Road  
Sacramento, California 95827**

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Environmental Services Office  
Environmental Restoration Division (AFCEE/ESR)  
Brooks AFB, Texas 78235-5000**

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# **RADIAN** CORPORATION

28 December 1993

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FAX # (916) 362-2318

**SM-ALC/EMR**

Attn: Ms. Doris Varnadore  
(F33615-90-D-4013/0004)  
3200 Peacekeeper Way, Suite 11  
McClellan AFB, CA 95652-1036

**SUBJECT:** Submittal of Deliverable  
Sequence 3 (Above Action Level Letter, due quarterly)  
(McClellan Site)

Dear Ms. Varnadore:

Table 1, enclosed with this letter, presents the preliminary Above Action Level List containing analytical results for samples from six extraction wells, one extraction well composite, and 44 monitoring wells sampled from October through December 1993 for the McClellan AFB Groundwater Sampling and Analysis Program (GSAP). The listed wells contain analytes at concentrations exceeding the California Environmental Protection Agency (EPA) Department of Toxic Substances Control (DTSC) Maximum Contaminant Levels (MCLs), DTSC Action Levels, and/or Cal-EPA Primary MCLs. The sector location, methods of analysis, analytes above Action Levels, reported concentrations, and referenced water quality standards are given for each well in Table 1. The locations of the wells listed in Table 1 are shown in Figure 1.

If you have any questions please contact me at (916) 362-5332.

Sincerely,



Marie J. Yates  
Project Director



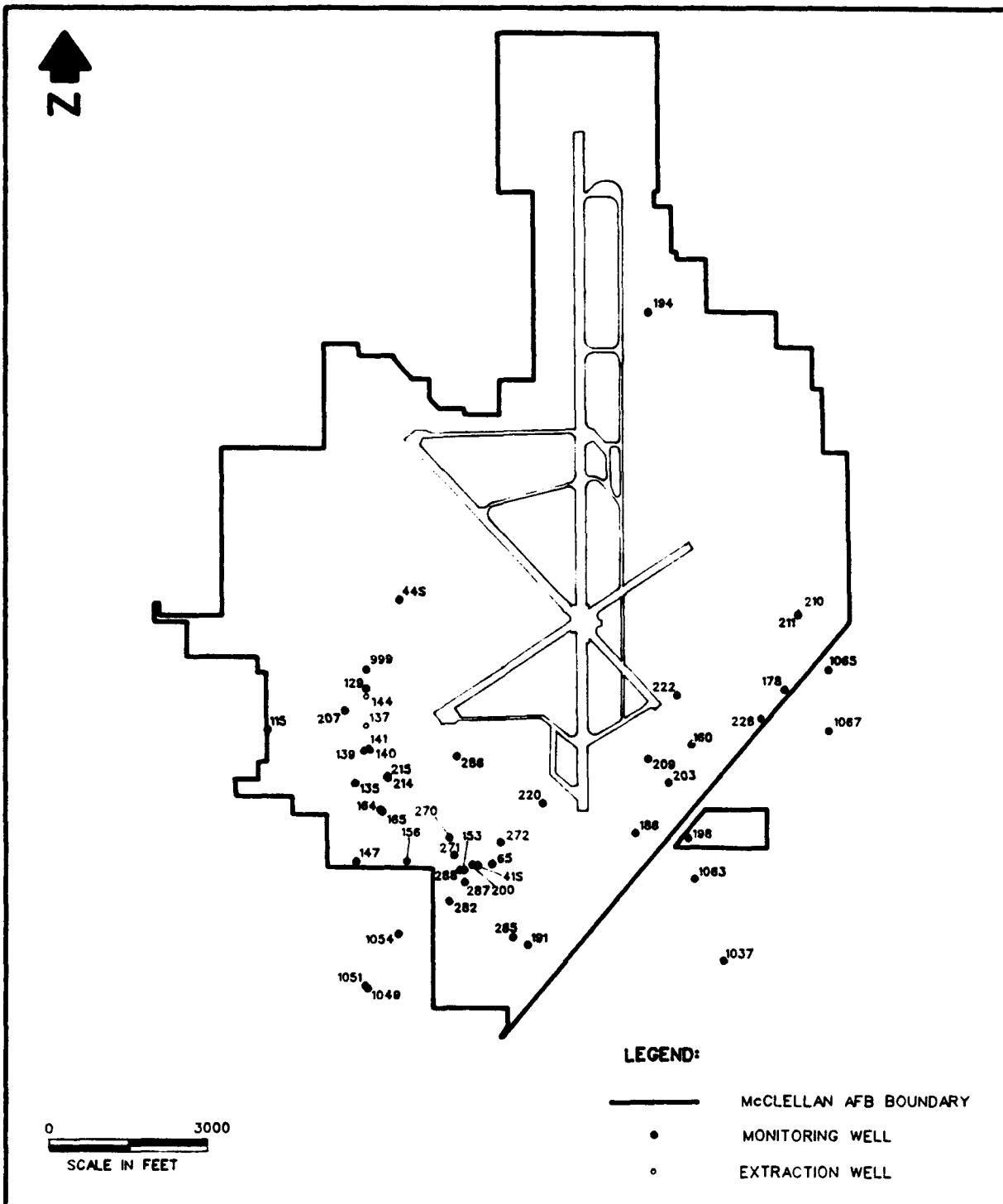
George C. Sparks  
Delivery Order Administrator

Enclosure

WEC:kats

c: McClellan AFB EM  
Marie Yates  
Mark Erickson  
Project File (DO 3)

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**Figure 1. Wells Containing Analytes at Concentrations Equal to or Exceeding State and Federal Drinking Water Standards, October-December, 1993**

TABLE 1 WELLS CONTAINING ANALYTES AT CONCENTRATIONS EQUAL TO OR EXCEEDING STATE AND FEDERAL DRINKING WATER STANDARDS, GROUNDWATER SAMPLING AND ANALYSIS PROGRAM, OCTOBER THROUGH DECEMBER 1993, MCCLELLAN AIR FORCE BASE

Well Number	Date Sampled	Sector	Method	Analyte Detected	Field Duplicate Analysis	Lab	Concentration	Maximum Contaminant Level Or Action Level	Qualified Results
EC-1	05-Oct-93	D	8010	1,1-Dichloroethane 1,1-Dichloroethene 1,2-Dichloroethane Trichloroethene Vinyl Chloride cis-1,2-Dichloroethene		RAS RAS RAS RAS RAS RAS	70 1520 16 436 98 55	5.0 MCL 6.0 MCL 0.50 MCL 5.0 MCL 0.50 MCL 6.0 MCL	
EW-137	04-Oct-93	C	8010	Trichloroethene cis-1,2-Dichloroethene		RAS RAS	66 H 6.3 H	5.0 MCL 6.0 MCL	
EW-140	04-Oct-93	C	8010	Trichloroethene cis-1,2-Dichloroethene Trichloroethene cis-1,2-Dichloroethene		RAS RAS FD FD	75 17 85 19	5.0 MCL 6.0 MCL 5.0 MCL 6.0 MCL	
EW-141	04-Oct-93	C	8010	Trichloroethene cis-1,2-Dichloroethene		RAS RAS	67 H 12 H	5.0 MCL 6.0 MCL	
EW-144	12-Oct-93	C	8010	Trichloroethene		RAS	371	5.0 MCL	
EW-233	20-Oct-93	B	8010	Tetrachloroethene Trichloroethene		RAS RAS	423 H 2330 H	5.0 MCL 5.0 MCL	
			6010	Selenium		RAS	0.058	0.010 MCL	
EW-234	12-Oct-93	B	8010	Tetrachloroethene Trichloroethene		RAS RAS	72 557	5.0 MCL 5.0 MCL	
MW-41S	04-Oct-93	B	8010	Tetrachloroethene Trichloroethene		RAS RAS	134 H 410 H	5.0 MCL 5.0 MCL	
MW-44S	17-Oct-93	C	6010	Chromium Lead		RAS RAS	0.26 B 0.072 B	0.050 MCL 0.050 MCL	R
			7421	Lead		RAS	0.058 B	0.050 MCL	
MW-65	14-Oct-93	B	8010	Tetrachloroethene Trichloroethene Tetrachloroethene Trichloroethene		RAS RAS FD FD	6.1 54 6.7 59	5.0 MCL 5.0 MCL 5.0 MCL 5.0 MCL	
			6010	Aluminum Arsenic Barium Cadmium Chromium Lead Selenium		RAS RAS RAS RAS RAS RAS RAS	12 B 1.6 1.2 0.13 0.82 0.41 0.31	1.0 MCL 0.050 MCL 1.0 MCL 0.010 MCL 0.050 MCL 0.050 MCL 0.010 MCL	

TABLE 1 (Continued)

Well Number	Date Sampled	Sector	Method	Analyte Detected	Field Duplicate Analysis	Lab	Concentration	Maximum Contaminant Level Or Action Level	Qualified Results
MW-65	14-Oct-93	B	6010	Silver		RAS	0.18	0.050 MCL	
			7060	Arsenic		RAS	0.11	0.050 MCL	
			7421	Lead		RAS	0.13	0.050 MCL	
			7740	Selenium		RAS	0.014	0.010 MCL	
MW-115	08-Oct-93	C	6010	Arsenic Chromium		RAS	0.22	0.050 MCL	
						RAS	0.21	0.050 MCL	
			7060	Arsenic		RAS	0.091 B	0.050 MCL	
MW-129	17-Oct-93	C	8010	Trichloroethene		RAS	4260	5.0 MCL	
MW-135	06-Oct-93	C	8010	Trichloroethene		RAS	11 H	5.0 MCL	
MW-139	05-Oct-93	C	8010	1,1-Dichloroethane Trichloroethene cis-1,2-Dichloroethene		RAS RAS RAS	11 108 21	5.0 MCL 5.0 MCL 6.0 MCL	
MW-147	08-Oct-93	B	6010	Chromium		RAS	0.11	0.050 MCL	
			7060	Arsenic		RAS	0.093 B	0.050 MCL	
MW-153	13-Oct-93	B	8010	Tetrachloroethene Trichloroethene cis-1,2-Dichloroethene		RAS RAS RAS	6.8 67.8 7.1	5.0 MCL 5.0 MCL 6.0 MCL	6
MW-156	06-Oct-93	B	8010	1,2-Dichloroethane Trichloroethene cis-1,2-Dichloroethene		RAS RAS RAS	0.77 133 46	0.50 MCL 5.0 MCL 6.0 MCL	
MW-160	14-Oct-93	A	8010	Trichloroethene		RAS	73	5.0 MCL	
MW-164	13-Oct-93	B	8010	Trichloroethene cis-1,2-Dichloroethene		RAS RAS	15 H 9.8 H	5.0 MCL 6.0 MCL	
			6010	Chromium		RAS	1.9	0.050 MCL	
MW-165	06-Oct-93	B	8010	Trichloroethene cis-1,2-Dichloroethene		RAS RAS	125 33	5.0 MCL 6.0 MCL	
MW-178	11-Oct-93	A	8010	Carbon Tetrachloride Trichloroethene		RAS RAS	4.8 H 45 H	0.50 MCL 5.0 MCL	
MW-186	22-Oct-93	A	8010	Carbon Tetrachloride Trichloroethene		RAS RAS	0.58 55	0.50 MCL 5.0 MCL	

TABLE 1 (Continued)

Well Number	Date Sampled	Sector	Method	Analyte Detected	Field Duplicate Analysis	Lab	Concentration	Maximum Contaminant Level Or Action Level	Qualified Results
MW-191	20-Oct-93	B	8010	Trichloroethene		RAS	25 H	5.0 MCL	
MW-194	04-Oct-93	E	6010	Chromium Chromium	FD	RAS RAS	1.3 1.4	0.050 MCL 0.050 MCL	
MW-198	07-Oct-93	A	8010	Trichloroethene		RAS	19	5.0 MCL	
MW-200	21-Oct-93	B	8010	Trichloroethene cis-1,2-Dichloroethene		RAS RAS	13 H 12 H	5.0 MCL 6.0 MCL	
			6010	Chromium		RAS	0.067 B	0.050 MCL	
MW-203	11-Oct-93	A	8010	Trichloroethene		RAS	24	5.0 MCL	
			6010	Chromium		RAS	3.7	0.050 MCL	
MW-207	11-Oct-93	C	6010	Chromium		RAS	0.20	0.050 MCL	
MW-209	12-Oct-93	A	8010	1,2-Dichloropropane Trichloroethene cis-1,2-Dichloroethene		RAS RAS RAS	11 P 2810 PB 254 P	5.0 PMCL 5.0 MCL 6.0 MCL	
			6010	Aluminum Chromium Lead		RAS RAS RAS	1.4 28 0.052	1.0 MCL 0.050 MCL 0.050 MCL	
MW-210	11-Oct-93	A	8010	Carbon Tetrachloride		RAS	4.0	0.50 MCL	
MW-211	11-Oct-93	A	6010	Chromium		RAS	0.20	0.050 MCL	
MW-214	13-Oct-93	C	8010	1,1-Dichloroethane Trichloroethene cis-1,2-Dichloroethene		RAS RAS RAS	13 H 9.9 H 13 H	5.0 MCL 5.0 MCL 6.0 MCL	
			6010	Chromium		RAS	1.9	0.050 MCL	
MW-215	13-Oct-93	C	6010	Chromium		RAS	0.066	0.050 MCL	
MW-222	12-Oct-93	A	8010	Carbon Tetrachloride Trichloroethene Carbon Tetrachloride Trichloroethene	FD FD	RAS RAS RAS RAS	2.0 H 17 HB 1.8 13	0.50 MCL 5.0 MCL 0.50 MCL 5.0 MCL	
MW-228	12-Oct-93	A	8010	1,2-Dichloroethane		RAS	36 H	0.50 MCL	
MW-270	07-Oct-93	B	8010	Tetrachloroethene Trichloroethene		RAS RAS	172 1390	5.0 MCL 5.0 MCL	

TABLE 1 (Continued)

Well Number	Date Sampled	Sector	Method	Analyte Detected	Field Duplicate Analysis	Lab	Concentration	Contaminant Level Or Action Level	Qualified Results
MW-270	07-Oct-93	B	8010	cis-1,2-Dichloroethene		RAS	38	6.0 MCL	
			6010	Chromium		RAS	0.66	0.050 MCL	
MW-271	07-Oct-93	B	8010	1,2-Dichloroethane		RAS	3.1	0.50 MCL	
				Carbon Tetrachloride		RAS	0.76	0.50 MCL	
				Trichloroethene		RAS	43	5.0 MCL	
			6010	Chromium		RAS	0.062	0.050 MCL	
MW-272	07-Oct-93	B	8010	Trichloroethene		RAS	148	5.0 MCL	
			6010	Chromium		RAS	0.086	0.050 MCL	PF
MW-282	17-Oct-93	B	8010	Carbon Tetrachloride		RAS	0.70	0.50 MCL	
				Trichloroethene		RAS	31	5.0 MCL	
				Carbon Tetrachloride	FD	RAS	0.70	0.50 MCL	
				Trichloroethene	FD	RAS	38	5.0 MCL	
MW-285	17-Oct-93	B	8010	Trichloroethene		RAS	10	5.0 MCL	G
MW-286	17-Oct-93	B	8010	1,1-Dichloroethane		RAS	24	5.0 MCL	
				1,2-Dichloroethane		RAS	1.3	0.50 MCL	
				Trichloroethene		RAS	24	5.0 MCL	
				cis-1,2-Dichloroethene		RAS	25	6.0 MCL	
MW-287	17-Oct-93	B	8010	Tetrachloroethene		RAS	24	5.0 MCL	
				Trichloroethene		RAS	362	5.0 MCL	
MW-288	17-Oct-93	B	8010	Tetrachloroethene		RAS	23	5.0 MCL	
				Trichloroethene		RAS	287	5.0 MCL	
				cis-1,2-Dichloroethene		RAS	15	6.0 MCL	
MW-999	16-Oct-93	C	8010	Trichloroethene		RAS	28100	5.0 MCL	
				cis-1,2-Dichloroethene		RAS	544	6.0 MCL	
			6010	Chromium		RAS	0.12	0.050 MCL	
MW-1049	20-Oct-93	B	8010	Trichloroethene		RAS	14 B	5.0 MCL	
				Trichloroethene	FD	RAS	14 B	5.0 MCL	
MW-1051	15-Oct-93	B	8010	Trichloroethene		RAS	5.1 H	5.0 MCL	
MW-1054	08-Oct-93	B	8010	Trichloroethene		RAS	8.4 H	5.0 MCL	
				Trichloroethene	FD	RAS	8.4	5.0 MCL	
MW-1058	20-Oct-93	A	8010	Trichloroethene		RAS	27 B	5.0 MCL	PL
				Trichloroethene	FD	RAS	29 B	5.0 MCL	



TABLE 1 (Continued)

Well Number	Date Sampled	Sector	Method	Analyte Detected	Field Duplicate Analysis	Lab	Concentration	Maximum Contaminant Level Or Action Level	Qualified Results
MW-1058	20-Oct-93	A	6010	Chromium		RAS	3.5 B	0.050 MCL	
MW-1063	13-Oct-93	A	6010	Chromium		RAS	0.14	0.050 MCL	
MW-1065	05-Oct-93	A	6010	Chromium	FD	RAS	1.7	0.050 MCL	
				Chromium		RAS	1.1	0.050 MCL	
MW-1067	20-Oct-93	A	8010	Carbon Tetrachloride		RAS	1.2 C	0.50 MCL	
				Trichloroethene		RAS	23 C	5.0 MCL	

TABLE 1 (Continued)

FOOTNOTES AND ABBREVIATIONS

DATAFLAGS:

C = Confirmed on second column.  
H = Previously confirmed on second column or by GC/MS.  
B = Inorganic Methods - Analyte is found in the associated blank, but the sample results are not corrected for the amount in the blank.  
P = Results from primary and secondary columns differ by greater than a factor of three due to coelution or interference.

FIELD DUPLICATE ANALYSIS:  
FD = Field duplicate.

LAB:  
RAS = Radian Analytical Services, Austin.

MAXIMUM CONTAMINANT LEVEL/ACTION LEVEL:

AL = Cal/EPA Dept. of Toxic Substances Control Action Level.  
MCL = Cal/EPA Dept. of Toxic Substances Control Maximum Contaminant Level.  
PMCL = U.S. Environmental Protection Agency Primary Maximum Contaminant Level.

WELL IDENTIFICATION:

EC = Extraction well composite. (EC-1 is a composite of EW-73, EW-83, EW-84, EW-85, EW-86, and EW-87)  
EW = Extraction well.  
MW = Monitoring well.

QUALIFIED RESULTS:


G = Primary and second column results differ by more than a factor of three times for method SW8010.  
Therefore, the lower of the two values is reported.  
PF = Qualified as estimated due to high total variability as measured by field duplicates.  
PL = Qualified as estimated due to high laboratory variability, as measured by matrix spikes/matrix spike duplicates.  
R = Detected in reagent blank.

UNITS:

METHODS 8010, 8020 = ug/L.  
METHODS 6010, 7060, 7421, 7470, 7740 = mg/L.  
MCL FOR METHODS 8010, 8020 = ug/L.  
MCL FOR METHODS 6010, 7060, 7421, 7470, 7740 = mg/L.  
mg/L = milligrams per liter.  
ug/L = micrograms per liter.

## **NOTICE**

**This report has been prepared for McClellan Air Force Base (AFB) to aid in the implementation of a final remedial action plan under the Air Force Installation Restoration Program (IRP). As this data summary relates to actual or possible releases of potentially hazardous substances, its release prior to an Air Force final decision on remedial action is in the public's interest. The limited objectives of this data summary, the ongoing nature of the IRP, and the evolving knowledge of site conditions and chemical effects on the environment and on human health all must be considered when evaluating this data summary, since subsequent facts may become known that make this data summary premature or inaccurate. Acceptance of this data summary in performance of the contract under which it is prepared does not mean that the Air Force adopts the conclusions, recommendations, or other views expressed herein, which are those of the contractor only and do not necessarily reflect the official position of the Air Force.**



## **PREFACE**

Radian Corporation is the contractor for the IRP, Stage 3 Remedial Investigation/Feasibility Study (RI/FS) at McClellan AFB, California. This work was performed for the Air Force Center for Environmental Excellence, Environmental Services Office, Environmental Restoration Division (AFCEE/ESR) under Air Force Contract No. F33615-90-D-4013, Delivery Order 0003.

This data summary presents and summarizes the Groundwater Sampling and Analysis Program results for October through December 1993. The data includes analytical results from monitoring and extraction well groundwater samples and from groundwater-level data measured from on- and off-base wells.

Radian would like to acknowledge the cooperation of the McClellan AFB Office of Environmental Management Restoration (EMR). In particular, Radian acknowledges the assistance of Ms. Doris Varnadore of EMR. Ms. Varnadore was the Contracting Officer's Technical Project Manager.

Approved:

  
Thomas F. Cudzilo, RG  
Technical Peer Reviewer

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**12b. DISTRIBUTION CODE****13. ABSTRACT (Maximum 200 words)**

This Data Summary presents the results of groundwater sampling activities conducted on and in the vicinity of McClellan Air Force Base during the sampling period of October through December 1993. Concentrations of purgeable hydrocarbons and aromatic compounds detected in wells (44 monitoring wells, 6 extraction wells, and 1 extraction well composite) exceeded state and/or federal drinking water standards. These wells are located in Sectors A, B, C, and D.

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Plate 1	Location of Piezometers and Monitoring, Extraction, and Water-Supply Wells Isopleths for B-Zone Monitoring and Extraction Wells
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### **Overlays** (submitted in attached map tube)

Plate 2	Water-Level Contours and Estimated Trichloroethene Concentration Isopleths for A-Zone Monitoring and Extraction Wells
Plate 3	Water-Level Contours and Estimated Trichloroethene Concentration Isopleths for B-Zone Monitoring and Extraction Wells
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Plate 5	Water-Level Contours and Estimated Trichloroethene Concentration Isopleths for D-Zone Monitoring and Extraction Wells



## **1.0**

## **INTRODUCTION**

In support of ongoing Remedial Investigation/Feasibility Study (RI/FS) activities at McClellan Air Force Base (AFB), California, Radian Corporation (Radian) personnel measure water levels and collect and analyze groundwater samples from selected on- and off-base wells on a quarterly basis. This data summary provides, in tabular form, analytical results of data collected during the October through December 1993 (Fourth Quarter [4Q93]) sampling effort. Data are provided in the following 11 tables:

- Table 1 — Wells Sampled and Analyses Performed;
- Table 2 — Quarterly Groundwater-Level Data;
- Table 3 — Master Log of Wells Sampled;
- Table 4 — Wells Containing Analytes at Concentrations Equal to or Exceeding State and Federal Drinking Water Standards;
- Table 5 — Ambient Blanks with Associated Well Samples;
- Table 6 — Trip Blanks with Associated Well Samples;
- Table 7 — Summary of Quality Control Results for Blanks;
- Table 8 — Summary of Quality Control Results for Duplicates;
- Table 9 — Summary of Quality Control Results for Spikes;
- Table 10 — Summary of Qualified Data; and
- Table 11 — Wells Scheduled and Analyses to be Performed.

Six monitoring zones (A through F) divide the groundwater regime, by depth and lithology, beneath McClellan AFB. The base and adjacent off-base areas are also divided into six geographic sectors, designated A through F (Figure 1). Results are presented by zone and sector to support review and data use.

In October 1993, groundwater levels were measured in 285 wells (237 monitoring wells, 39 piezometers, and 9 extraction wells). The locations of all wells and piezometers are shown on Plate 1; water-level elevations are provided in Table 2. Potentiometric-surface contours are shown on Plates 2, 3, 4, and 5.

Radian personnel collected groundwater samples from a total of 97 locations between 01 October and 30 November 1993. The locations included 87 monitoring wells, 6 extraction wells, 3 background wells, and one composite sample of 6 Sector D extraction wells (EWs) (EW-73, EW-83, EW-84, EW-85, EW-86, and EW-87) from the Sector D pipeline.

Groundwater samples were analyzed by Radian Analytical Services (Austin, Texas) using United States Environmental Protection Agency (U.S. EPA) *Test Methods for Evaluating Solid Waste, Third Edition*, Physical/Chemical Methods SW846 (U.S. EPA, 1986). Selected samples were analyzed for the following analytes:

- Halogenated volatile organic compounds (HVOCs) using Method 8010;
- Aromatic volatile organic compounds (VOCs) using Method 8020; and
- Metals using Methods 6010, 7060, 7421, 7470, and 7740.

A total of 90 locations (80 monitoring wells, 6 extraction wells, 3 background wells, and one composite of 6 extraction wells) were sampled for Method 8010 analyses during 4Q93. Method 8020 analyses were performed on 66 samples (from 56 monitoring wells, 6 extraction wells, 3 background wells, and one composite of 6 extraction wells). None of the samples were filtered during collection to remove suspended solids. The analytical results of all these analyses are summarized in Table 3, and estimated trichloroethene concentration isopleths are shown on Plates 2, 3, 4, and 5 (background wells are excluded from plates).

Table 4 presents the Above Action Level List for samples in which one or more contaminants equaled or exceeded either the federal or California Maximum Contaminant Levels (MCLs) or the California Action Levels for drinking water. Samples from 44 monitoring wells, 6 extraction wells, and one composite from 6 extraction wells exceeded standards for either organic or inorganic analytes.

The quality control (QC) data presented in this report have been evaluated according to the quality assurance objectives specified in the final *McClellan AFB Quality Assurance Project Plan (QAPP)* (Radian, 1992). These objectives represent accuracy and precision performance goals for each analytical method. The results of the QC sample analyses are summarized in Tables 5 through 11.

Method SW8010 and Method SW8020 results were reported from the second column analysis rather than the first column. For these results, the values between the first and second columns differed by more than a factor of three. When this occurs, coelution is suspected, and the lower of the two values is considered more accurate. For the 4Q93 sampling event, 85 second-column results were reported and qualified with a "G" flag.

Under the new laboratory reporting system, the reported detection limits were instrument specific. The laboratory uses several instruments to analyze project samples, and each instrument has unique detection limits. The laboratory continued to run second column confirmation analyses based on project detection limits, rather than the lower instrument limits. Because of this, many results were flagged with a "T." The results reported with a "T" flag were low-level detections below the project required detection limits for which no second column analyses were required. Any "T"- flagged results other than methylene chloride and toluene, which do not require second column confirmation for low level detections, are therefore considered false positives due to instrument and/or background noise and were not reported. This is consistent with previous reporting procedures.

**Method SW8010:** Though the laboratory-established protocol for daily calibration verifications was met, the stricter method-specified protocol was not always met. The laboratory-established protocol is generally more representative of the method capabilities. The daily calibration verifications indicate that, with the exception of 2-chloroethylvinylether, the method was operating under control. The results from the 2-chloroethylvinylether daily calibration verifications indicate a slight low bias potential for this compound.

First column surrogate spike recoveries for a MW-1067 sample analyzed by SW8010 and a MW-27D sample analyzed by SW8020 were not within control limits. The samples were reanalyzed in accordance with the QAPP protocol, but the first column surrogate recoveries were still unacceptable after reanalysis. However, the surrogate

recoveries for the second column analyses were acceptable and therefore the second column results are reported for these two wells.

The completeness objective for all the measurement parameters is 95 percent. Although several individual sample results required qualification (196 analyte measurements from a total of 4,915), the remaining unqualified analytical data met the objective. Ninety-six percent of the data produced are valid, and the completeness objective has been met for the 4Q93 sampling event.

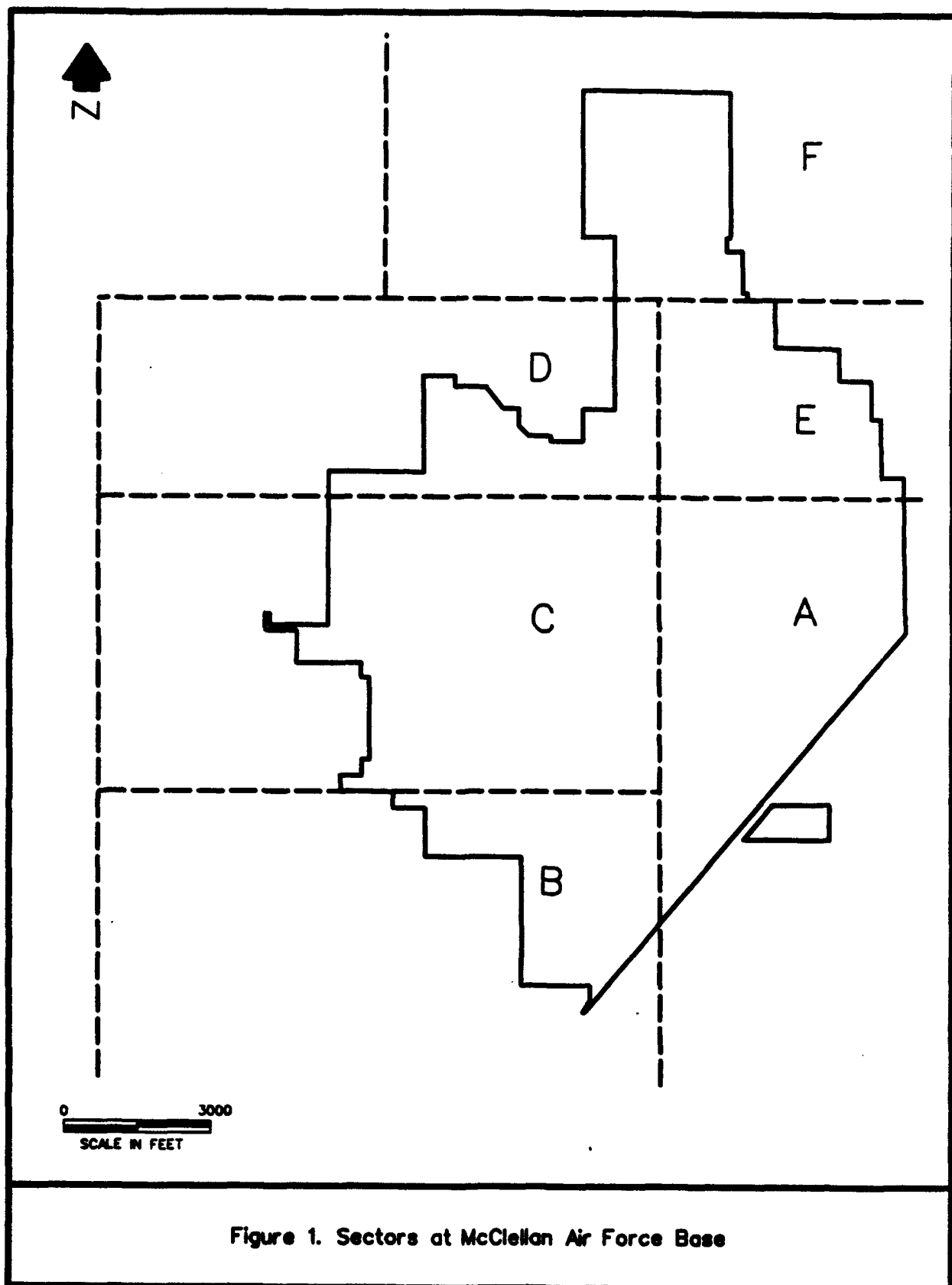


TABLE 1 WELLS SAMPLED AND ANALYSES PERFORMED,  
GROUNDWATER SAMPLING AND ANALYSIS PROGRAM,  
OCTOBER THROUGH DECEMBER 1993, McCLELLAN AIR FORCE BASE

Well Number (a)	Date Sampled	SW Methods		
		SW8010	SW8020	6010,7060,7421 7470,7740
EC-1	05-Oct-93	X	X	X
EV-137	04-Oct-93	X	X	X
EV-140	04-Oct-93	X	X	X
EV-141	04-Oct-93	X	X	X
EV-144	12-Oct-93	X	X	X
EV-233	20-Oct-93	X	X	X
EV-234	12-Oct-93	X	X	X
MW-270	05-Oct-93		X	
MW-280	05-Oct-93	X	X	
MW-41S	04-Oct-93	X		X
MW-44S	17-Oct-93	X	X	X
MW-65	14-Oct-93	X	X	X
MW-68	22-Oct-93	X		
MW-102	08-Oct-93	X	X	
MW-104	16-Oct-93	X	X	X
MW-105	07-Oct-93	X		X
MW-109	21-Oct-93		X	X
MW-112	08-Oct-93	X	X	
MW-115	08-Oct-93	X	X	X
MW-129	17-Oct-93	X	X	X
MW-130	07-Oct-93	X		X
MW-134	06-Oct-93	X	X	X
MW-135	06-Oct-93	X	X	X
MW-139	05-Oct-93	X	X	X
MW-147	08-Oct-93	X		X
MW-149	06-Oct-93	X	X	
MW-150	12-Oct-93	X		
MW-151	12-Oct-93	X		
MW-152	12-Oct-93	X		
MW-153	13-Oct-93	X		
MW-156	06-Oct-93	X		
MW-160	14-Oct-93	X	X	
MW-163	12-Oct-93	X	X	
MW-164	13-Oct-93	X	X	X
MW-165	06-Oct-93	X	X	X
MW-169	11-Oct-93	X	X	
MW-175	14-Oct-93	X		
MW-176	14-Oct-93	X	X	
MW-178	11-Oct-93	X	X	
MW-180	11-Oct-93	X	X	X
MW-184	15-Oct-93	X	X	X
MW-185	05-Oct-93	X		
MW-186	22-Oct-93	X	X	X
MW-190	15-Oct-93	X	X	X
MW-191	20-Oct-93	X	X	

TABLE 1 (Continued)

Well Number (a)	Date Sampled	SW Methods		
		SW8010	SW8020	6010,7060,7421 7470,7740
MW-194	04-Oct-93	X		X
MW-197	14-Oct-93	X	X	
MW-198	07-Oct-93	X	X	
MW-200	21-Oct-93	X		X
MW-201	08-Oct-93	X		
MW-203	11-Oct-93	X	X	X
MW-207	11-Oct-93	X	X	X
MW-209	12-Oct-93	X	X	X
MW-210	11-Oct-93	X	X	
MW-211	11-Oct-93	X	X	X
MW-214	13-Oct-93	X	X	X
MW-215	13-Oct-93	X	X	X
MW-218	13-Oct-93	X	X	
MW-222	12-Oct-93	X	X	
MW-226	05-Oct-93	X	X	
MW-228	12-Oct-93	X	X	
MW-270	07-Oct-93	X	X	X
MW-271	07-Oct-93	X	X	X
MW-272	07-Oct-93	X	X	X
MW-282	17-Oct-93	X	X	
MW-283	16-Oct-93	X	X	
MW-284	16-Oct-93	X	X	
MW-285	17-Oct-93	X	X	
MW-286	17-Oct-93	X	X	
MW-287	17-Oct-93	X	X	
MW-288	17-Oct-93	X	X	
MW-999	16-Oct-93	X	X	X
MW-1004	17-Oct-93	X		
MW-1012	17-Oct-93	X	X	X
MW-1015	20-Oct-93	X	X	
MW-1019	22-Oct-93	X	X	
MW-1023	16-Oct-93	X	X	
MW-1024	16-Oct-93			X
MW-1031	21-Oct-93	X		X
MW-1032	06-Oct-93			X
MW-1044	20-Oct-93	X		
MW-1049	20-Oct-93	X		
MW-1050	15-Oct-93			X
MW-1051	15-Oct-93	X		
MW-1053	05-Oct-93	X		
MW-1054	08-Oct-93	X		
MW-1057	20-Oct-93	X		
MW-1058	20-Oct-93	X	X	X
MW-1060	14-Oct-93	X		
MW-1061	13-Oct-93	X	X	
MW-1063	13-Oct-93			X
MW-1065	05-Oct-93			X

TABLE 1 (Continued)

Well Number (a)	Date Sampled	SW8010	SW8020	SW Methods
				6010,7060,7421 7470,7740
MW-1067	20-Oct-93	X		
MW-1069	15-Oct-93	X		
OW-654	05-Nov-93	X	X	X
OW-994	05-Nov-93	X	X	X
OW-998	05-Nov-93	X	X	X

(a) The letters 'S' and 'D' associated with monitoring well numbers are part of the well identification notation and do not refer to monitoring zones at McClellan AFB.

EC = Extraction Well Composite

EC-1 is a composite of EW-73, EW-83, EW-84, EW-85, EW-86, and EW-87.

EW = Extraction Well

MW = Monitoring Well

OW = Observation Well



TABLE 2 QUARTERLY GROUNDWATER-LEVEL DATA,  
GROUNDWATER SAMPLING AND ANALYSIS PROGRAM,  
OCTOBER THROUGH DECEMBER 1993, McCLELLAN AIR FORCE BASE

<u>Groundwater-Level Elevation (feet mean sea level)</u>			
Well		Current Measurement	Previous Measurement
Number(a)	Sector	4Q93	3Q93
-----			
<u>A Zone Monitoring Wells:</u>			
MW-5	B	- 52.00	- 49.21
MW-7	B	- 46.95	- 44.36
MW-10	D	- 40.12	- 38.16
MW-11	D	- 39.58	- 37.87
MW-12	D	- 39.54	- 38.04
MW-14	D	- 40.02	- 37.85
MW-15	D	- 37.62	- 37.62
MW-210	C	- 38.85	- 38.44
MW-250	B	- 43.20	- 40.51
MW-280	A	- 36.86	- 35.55
MW-33S	C	- 36.57	- 37.87
MW-36S	C	(d)	(d)
MW-41S	B	- 44.72	- 42.85
MW-44S	C	- 37.82	- 36.45
MW-60	C	- 38.49	- 37.13
MW-61	C	- 41.06	- 39.13
MW-62	C	(d)	- 36.47
MW-65	B	- 44.07	- 42.45
MW-68	A	- 42.16	- 39.71
MW-72	D	- 40.33	- 38.38
MW-75	C	- 39.68	- 38.00
MW-88	D	- 38.18	- 36.83
MW-89	D	- 39.28	- 37.76
MW-90	D	- 39.16	- 37.62
MW-91	D	- 39.01	- 37.32
MW-92	D	- 38.87	- 37.11
MW-101	E	- 38.69	- 35.52
MW-102	F	- 27.47	- 27.12
MW-106	D	(d)	(d)
MW-107	C	(d)	- 36.23
MW-110	C	- 37.57	- 36.34
MW-111	C	- 38.50	- 37.23
MW-114	C	(d)	(d)
MW-115	C	- 40.73	- 39.17
MW-116	C	(d)	(d)
MW-117	C	- 42.65	- 40.97
MW-120	C	(c)	(d)
MW-123	C	- 41.75	- 40.41
MW-128	C	- 39.80	- 38.06
MW-129	C	- 40.19	- 38.52
MW-131	C	(d)	- 38.88
MW-135	C	- 44.00	- 41.81

(Continued)

TABLE 2 (Continued)

Groundwater Level Elevation (feet mean sea level)			
Well Number(a)	Sector	Current Measurement 4Q93	Previous Measurement 3Q93
A Zone Monitoring Wells:			
MW-139	C	- 42.36	- 40.14
MW-145	B	- 46.88	- 44.49
MW-150	B	- 47.50	- 45.14
MW-153	B	- 45.17	- 43.25
MW-155	B	- 47.06	- 44.42
MW-157	B	- 44.72	- 43.19
MW-158	B	- 44.74	- 42.98
MW-159	B	- 43.70	- 41.80
MW-160	A	- 36.68	- 34.86
MW-164	B	- 44.42	- 42.02
MW-169	A	- 37.72	- 34.06
MW-172	A	(d)	- 34.59
MW-175	B	- 44.25	- 41.11
MW-178	A	- 34.37	- 31.88
MW-182	C	- 42.33	- 40.27
MW-185	E	- 37.11	- 34.21
MW-186	A	- 41.73	- 39.00
MW-188	C	- 37.55	- 36.95
MW-191	B	- 45.48	- 42.94
MW-194	E	- 37.99	- 34.39
MW-197	A	- 38.87	- 37.31
MW-200	B	- 46.01	- 44.10
MW-202	A	- 36.95	- 32.95
MW-203	A	- 39.68	- 38.89
MW-206	C	- 39.67	- 38.92
MW-209	A	- 39.47	- 37.68
MW-210	A	- 35.20	- 32.41
MW-212	A	(d)	- 34.03
MW-214	C	- 43.43	- 41.28
MW-217	B	- 47.05	- 44.57
MW-222	A	- 37.71	- 35.33
MW-224	A	- 35.37	- 33.30
MW-226	A	- 39.02	- 35.47
MW-228	A	- 36.57	- 34.38
MW-235	B	- 44.77	- 42.95
MW-238	B	- 45.01	- 43.05
MW-281	B	- 42.17	NM
MW-282	B	- 45.78	NM
MW-283	B	- 41.64	NM
MW-284	B	- 44.48	NM
MW-285	B	- 45.13	NM
MW-286	B	- 40.65	NM
MW-287	B	- 45.42	NM
MW-288	B	- 45.29	NM

(Continued)

TABLE 2 (Continued)

Groundwater Level Elevation (feet mean sea level)			
Well		Current Measurement	Previous Measurement
Number(a)	Sector	4Q93	3Q93
-----			
A Zone Monitoring Wells:			
MW-999	C	- 39.24	(b)
MW-1002	D	(d)	- 36.86
MW-1004	D	- 38.42	- 37.07
MW-1005	D	(d)	- 36.58
MW-1009	D	(d)	- 35.07
MW-1011	B	(d)	(d)
MW-1012	F	- 24.60	- 23.36
MW-1013	B	(d)	(d)
MW-1014	A	(d)	- 39.98
MW-1015	B	- 48.01	- 45.41
MW-1016	B	- 47.86	- 45.46
MW-1017	C	(d)	(d)
MW-1018	C	- 37.94	- 36.76
MW-1019	D	- 38.55	- 38.30
MW-1020	B	- 47.94	- 45.60
MW-1021	B	- 48.34	- 45.75
MW-1023	B	- 48.58	- 46.26
MW-1024	B	- 49.06	- 46.69
MW-1026	D	- 36.76	- 34.90
MW-1029	C	(d)	- 35.54
MW-1033	C	(d)	- 38.14
MW-1036	C	- 35.96	- 34.97
MW-1037	A	- 32.62	- 30.78
MW-1041	D	- 38.21	- 36.25
MW-1044	B	- 47.74	- 45.08
MW-1049	B	- 49.73	- 47.27
MW-1053	B	- 50.54	- 48.29
MW-1054	B	- 48.75	- 46.19
MW-1058	A	- 34.46	- 32.82
MW-1061	A	- 38.73	- 37.35
MW-1064	D	- 38.59	- 36.43
MW-1067	A	- 37.99	- 34.98
MW-1069	B	- 49.01	- 46.45
PZ-1	B	- 46.99	- 44.48
PZ-3	C	- 40.91	- 38.81
PZ-5	C	- 43.18	- 41.01
PZ-8	C	- 40.25	- 38.35
PZ-11	C	- 42.38	- 40.43
PZ-14	C	- 41.87	- 39.57
PZ-15	C	- 40.75	- 39.85
PZ-18	C	- 41.92	- 40.47
PZ-24	C	- 40.42	- 38.52
PZ-25	C	- 40.49	- 38.54
PZ-30	C	- 42.42	- 40.47

(Continued)

TABLE 2 (Continued)

Groundwater Level Elevation (feet mean sea level)			
Well		Current Measurement	Previous Measurement
Number(a)	Sector	4Q93	3Q93
-----			
<u>A Zone Monitoring Wells:</u>			
PZ-1000	B	- 49.76	- 47.30
<u>AB Zone Monitoring Wells:</u>			
MW-160	F	- 36.02	- 34.12
MW-170	F	- 37.02	- 34.60
MW-126	C	- 46.17	- 44.88
MW-1010	D	- 38.82	- 36.69
MW-1042	D	- 38.49	- 36.54
<u>IAB Zone Monitoring Wells:</u>			
MW-380	D	- 40.10	- 38.41
MW-52	D	- 39.26	- 37.51
MW-53	D	- 40.12	- 38.51
MW-54	D	- 40.50	- 38.57
MW-55	D	- 40.53	- 38.99
MW-57	D	- 39.88	- 37.73
MW-70	D	- 39.57	- 37.88
MW-74	D	- 39.52	- 37.66
MW-76	D	- 39.35	- 37.51
MW-108	C	- 38.48	- 37.00
MW-113	C	- 39.10	- 37.80
MW-121	C	(c)	- 43.57
MW-124	C	- 46.52	- 45.24
MW-1000	B	- 48.01	- 45.65
MW-1003	D	- 38.46	- 36.44
MW-1034	C	- 41.36	- 40.21
<u>OAB Zone Monitoring Wells:</u>			
PZ-19	C	- 43.31	- 41.81
<u>B Zone Monitoring Wells:</u>			
MW-180	D	- 37.62	- 35.24
MW-190	D	- 38.70	- 37.08
MW-200	C	- 39.76	- 38.26
MW-220	C	- 42.58	- 40.81
MW-230	B	- 53.20	- 51.77
MW-240	B	- 49.54	- 47.86
MW-260	A	- 45.46	- 44.09
MW-270	A	- 40.89	- 39.00
MW-290	E	- 37.69	- 34.89
MW-51	D	- 39.39	- 37.76
MW-58	D	- 39.10	- 37.25
MW-59	D	- 38.99	- 37.09
MW-63	B	(c)	(z)

(Continued)

TABLE 2 (Continued)

Groundwater Level Elevation (feet mean sea level)			
Well		Current Measurement	Previous Measurement
Number(a)	Sector	4Q93	3Q93
B Zone Monitoring Wells:			
MW-64	B	- 53.28	- 52.21
MW-66	B	- 56.20	- 55.22
MW-71	A	- 39.97	- 37.52
MW-103	F	- 37.09	- 34.66
MW-104	D	- 38.66	- 36.63
MW-105	D	- 38.90	- 36.92
MW-109	C	- 38.70	- 37.21
MW-112	C	- 39.01	- 37.73
MW-118	C	- 46.77	- 45.23
MW-130	C	- 42.77	- 41.27
MW-134	C	- 44.47	- 42.65
MW-142	C	- 43.49	- 41.84
MW-143	C	- 41.97	- 40.39
MW-146	B	- 47.87	- 45.68
MW-151	B	- 51.09	- 49.57
MW-156	B	- 52.36	- 48.99
MW-165	B	- 46.00	- 44.28
MW-170	A	- 38.14	- 34.80
MW-173	A	- 39.16	- 36.89
MW-176	B	- 47.09	- 45.94
MW-179	A	- 38.11	- 35.33
MW-183	C	- 48.37	- 41.63
MW-189	C	- 38.61	- 37.21
MW-192	B	- 48.52	- 47.41
MW-195	E	- 38.63	- 35.79
MW-198	A	- 45.66	- 44.91
MW-201	B	- 51.22	- 50.39
MW-204	A	- 43.59	- 42.20
MW-207	C	- 41.66	- 40.04
MW-211	A	- 37.86	- 34.61
MW-213	A	- 38.03	- 34.40
MW-215	C	- 44.70	- 43.20
MW-218	B	- 53.05	- 50.85
MW-220	B	- 46.51	- 45.03
MW-223	A	- 39.81	- 37.63
MW-225	A	- 38.08	- 35.55
MW-227	A	- 39.14	- 35.66
MW-229	A	- 39.30	- 36.81
MW-1001	D	- 38.54	- 36.66
MW-1022	B	- 56.40	- 54.82
MW-1025	B	- 50.55	- 48.50
MW-1027	D	- 37.77	- 35.91
MW-1028	D	- 38.13	- 36.16
MW-1030	C	- 37.37	- 36.39

(Continued)

TABLE 2 (Continued)

<u>Groundwater Level Elevation (feet mean sea level)</u>			
Well		Current Measurement	Previous Measurement
Number(a)	Sector	4Q93	3Q93
<u>B Zone Monitoring Wells:</u>			
MW-1031	C	- 37.99	- 36.75
MW-1032	C	- 38.50	- 37.33
MW-1035	C	- 41.83	- 40.61
MW-1038	A	- 45.98	- 44.97
MW-1043	D	- 38.69	- 36.55
MW-1045	B	- 52.48	- 50.43
MW-1050	B	- 50.30	- 48.08
MW-1055	B	- 50.68	- 48.61
MW-1059	A	- 40.23	- 38.09
MW-1062	A	- 46.84	- 45.10
MW-1065	A	- 37.96	- 34.70
MW-1066	A	- 37.92	- 34.72
MW-1068	A	- 38.09	- 35.16
PZ-2	B	- 52.22	- 48.91
PZ-4	C	- 42.69	- 40.76
PZ-6	C	- 44.09	- 42.21
PZ-12	C	- 43.60	- 42.07
PZ-16	C	- 42.48	- 40.78
PZ-20	C	- 45.93	- 44.68
PZ-22	C	- 41.99	- 40.37
PZ-26	C	- 42.61	- 40.89
PZ-28	C	- 41.81	- 40.26
PZ-31	C	- 44.14	- 41.94
PZ-37	A	- 37.71	- 35.28
PZ-38	A	(b)	- 41.20
PZ-1001	B	- 50.41	- 48.17
<u>OBC Zone Monitoring Wells:</u>			
PZ-21	C	- 46.88	- 45.91
PZ-32	C	- 44.25	- 42.70
<u>C Zone Monitoring Wells:</u>			
MW-119	C	- 47.70	- 46.41
MW-122	C	- 47.47	- 46.25
MW-125	C	- 47.40	- 46.28
MW-127	C	- 47.32	- 46.20
MW-132	B	- 53.14	- 51.35
MW-133	C	- 45.69	- 44.00
MW-136	C	- 44.49	- 42.10
MW-138	C	- 43.83	- 41.98
MW-147	B	- 47.00	- 46.94
MW-152	B	- 54.22	- 53.20
MW-154	B	- 51.72	- 52.34
MW-161	A	- 43.37	- 41.47

(Continued)

TABLE 2 (Continued)

<u>Groundwater Level Elevation (feet mean sea level)</u>			
Well		Current Measurement	Previous Measurement
Number(a)	Sector	4Q93	3Q93
-----			
<u>C Zone Monitoring Wells:</u>			
MW-166	B	- 46.62	- 45.15
MW-171	A	- 38.92	- 35.61
MW-174	A	- 40.28	- 37.90
MW-177	B	- 47.32	- 46.25
MW-180	A	- 40.55	- 37.52
MW-181	C	- 44.68	- 43.15
MW-184	C	- 44.44	- 41.74
MW-187	A	- 46.21	44.86
MW-190	C	- 41.10	- 39.30
MW-193	B	- 48.71	- 47.59
MW-196	E	- 40.42	- 36.68
MW-199	A	- 45.92	- 45.14
MW-205	A	- 44.87	- 43.58
MW-208	C	- 43.11	- 41.43
MW-216	C	- 45.28	- 43.93
MW-219	B	- 55.09	- 53.67
MW-221	B	- 47.45	- 46.20
MW-1039	A	- 46.27	- 45.25
MW-1040	F	- 42.55	- 40.53
MW-1046	B	- 55.12	- 53.63
MW-1051	B	- 51.32	- 49.32
MW-1056	B	- 53.37	- 51.67
MW-1060	A	- 41.55	- 39.34
MW-1063	A	- 47.13	- 45.39
PZ-7	C	- 44.91	- 43.19
PZ-9	C	- 49.11	(c)
PZ-10	C	- 43.77	- 41.97
PZ-13	C	- 44.48	- 42.94
PZ-17	C	- 41.78	- 41.78
PZ-23	C	- 43.36	- 41.70
PZ-27	C	- 43.60	- 41.84
PZ-29	C	- 42.67	- 41.00
PZ-33	C	- 44.64	- 42.99
PZ-34	C	- 44.63	- 42.93
<u>ICD Zone Monitoring Wells:</u>			
MW-148	B	- 48.95	- 46.97
<u>OCD Zone Monitoring Wells:</u>			
PZ-35	C	- 45.20	- 42.44
<u>D Zone Monitoring Wells:</u>			
MW-149	B	- 48.18	- 46.19
MW-162	C	- 45.45	- 43.55

(Continued)

TABLE 2 (Continued)

Groundwater Level Elevation (feet mean sea level)			
Well Number(a)	Sector	Current Measurement 4Q93	Previous Measurement 3Q93
-----			
<u>D Zone Monitoring Wells:</u>			
MW-163	C	- 45.78	- 43.88
MW-167	B	- 46.62	- 44.92
MW-1047	B	- 49.30	- 47.22
MW-1048	B	- 49.25	- 47.18
MW-1052	B	- 48.42	- 46.55
MW-1057	B	- 48.80	- 46.84
PZ-36	C	- 45.74	- 43.82
<u>E Zone Monitoring Wells:</u>			
MW-230	C	- 45.78	- 43.75
MW-231	B	- 46.47	- 44.72
MW-232	B	- 46.44	- 44.67
<u>Extraction Wells</u>			
EW-73	D	- 53.14	- 22.53
EW-83	D	- 43.71	- 42.04
EW-84	D	- 49.21	- 38.26
EW-85	D	- 44.95	- 37.72
EW-86	D	- 42.11	- 40.29
EW-87	D	- 42.60	- 40.80
EW-137	C	(c)	(y)
EW-140	C	(c)	(e)
EW-141	C	(c)	(e)
EW-233	B	- 56.95	- 47.91
EW-234	B	- 44.86	- 43.11

## WELL IDENTIFICATION:

EW = Extraction Well  
 MW = Monitoring Well  
 PZ = Piezometer

## ZONE IDENTIFICATION:

A = Screened in the A zone (-16.72 to -93.46 ft msl).  
 AB = Screened in both the A and B zones (-47.89 to -126.0 ft msl).  
 IAB = Screened in an intermediate zone between the A and B zones (-69.51 to -94.61 ft msl).  
 QAB = Screened in the aquitard between the A and B zones (-63.84 to -85.84 ft msl).  
 B = Screened in the B zone (-50.3 to -149.73').  
 QBC = Screened in the aquitard between the B and C zones (-122.18 to -146.05 ft msl).  
 C = Screened in the C zone (-117.11 to -213.2 ft msl).  
 ICD = Screened in an intermediate zone between the C and D zones (-225.97 to -235.97 ft msl).  
 QCD = Screened in the aquitard between the C and D zones (-225.76 to -227.76 ft msl).  
 D = Screened in the D zone (-261.69 to -306.95 ft msl).  
 E = Screened in the E zone (-327.74 to -365.36 ft msl).



TABLE 2 (Continued)

NOTES:

- (a) = The letters 'S' and 'D' associated with monitoring well numbers are part of the well identification notation and do not refer to monitoring zones at McClellan AFB.
- (b) = Unintentionally omitted.
- (c) = Blocked well access.
- (d) = Dry Well.
- (e) = Sounding tube obstructed.
- (y) = Water-level measurement greater than -90 feet msl.
- (z) = Well needs re-surveying.
- 4Q93 = Fourth Quarter 1993.
- 3Q93 = Third Quarter 1993.
- NM = No previous water-level measurement.
- msl = Mean Sea Level.

TABLE 3 MASTER LOG OF WELLS SAMPLED,  
GROUNDWATER SAMPLING AND ANALYSIS PROGRAM,  
OCTOBER THROUGH DECEMBER 1993, MCLELLAN AIR FORCE BASE

Well	Method	Field Analysis	Date Sampled	Date Analyzed	Batch ID	Analyte	Result	Reporting Limit	Qualified Results	Action Level
EC-1	8010	MS	10/06/93	10/07/93	GCPEA1310061504	1,1,1-Trichloroethane	133	(6.9)		200 MCL
						1,1-Dichloroethane	70	(3.64)		5.0 MCL
						1,1-Dichloroethene	1520	(2.84)		6.0 MCL
						1,2-Dichloroethane	16	(1.43)		0.50 MCL
						Trichloroethene	436	(1.94)		5.0 MCL
						Vinyl Chloride	98	(3.8)		0.50 MCL
EC-1	8020	MS	10/05/93	10/07/93	GCPEA2310061504	cis-1,2-Dichloroethene	55	(1.81)		6.0 MCL
						1,2-Dichlorobenzene	2.4	(0.0263)		130 AL
						1,3-Dichlorobenzene	0.38	(0.0218)		130 AL
						1,4-Dichlorobenzene	1.1	(0.0131)	PF	5.0 MCL
						Benzene	0.98	(0.0098)		1.0 MCL
						Chlorobenzene	0.19	(0.014)		30 AL
HAQ0303	8020	FD	10/05/93	10/07/93	GCPEA2310061504	Ethylbenzene	0.072 P	(0.0436)	G	680 MCL
						1,2-Dichlorobenzene	2.5	(0.0263)		130 AL
						1,3-Dichlorobenzene	0.38	(0.0218)		130 AL
						1,4-Dichlorobenzene	0.55	(0.0131)		5.0 MCL
						Benzene	0.96	(0.0098)		1.0 MCL
						Chlorobenzene	0.21	(0.014)		30 AL
EC-1	6010	MS	10/05/93	10/12/93	EQA061310121600	Barium	0.065 B	(0.0005)		1.0 MCL
						Calcium	18	(0.148)		
						Chromium	0.013	(0.0025)		0.050 MCL
						Copper	0.0069	(0.0038)		
						Iron	0.63	(0.006)		
						Magnesium	13	(0.0228)		
						Manganese	0.18	(0.0004)		
						Potassium	1.4	(0.37)		
						Sodium	22.8	(0.0397)		
						Vanadium	0.030	(0.0024)		
						Zinc	0.075	(0.0015)		
						Arsenic	0.0055	(0.001)		0.050 MCL
EC-1	7421	MS	10/05/93	10/17/93	AAZ2_310171000	Lead	0.028	(0.0011)		0.050 MCL
						Mercury	0.00010	(0.0001)		0.0020 MCL
EC-1	7470	MS	10/05/93	10/12/93	AAZ3_310122100	Selenium	ND	(0.0008)		0.010 MCL
EC-1	7740	MS	10/05/93	10/20/93	AAZ3_310201235	1,1-Dichloroethane	5.0 H	(0.222)		5.0 MCL
EW-137	8010	MS	10/04/93	10/07/93	GCTEX1310061111	Trichloroethene	66 H	(0.732)		5.0 MCL
						cis-1,2-Dichloroethene	6.3 H	(0.366)		6.0 MCL

TABLE 3 (Continued)

Well	Method	Field Analysis	Date Sampled	Date Analyzed	Batch ID	Analyte	Result	Reporting Limit	Qualified Results	Action Level
EV-137	8020	NS	10/04/93	10/07/93	GCTEX2310061111	No Analytes Detected	ND			
EV-137	6010	NS	10/04/93	10/15/93	ENJA61310151001	Barium Calcium Chromium Magnesium Nickel Potassium Sodium Vanadium	0.17 43 0.0079 33 0.013 1.5 23 B 0.022	(0.0005) (0.148) (0.0025) (0.0228) (0.0099) (0.37) (0.0397) (0.0024)		1.0 MCL 0.050 MCL
EV-137	7060	NS	10/04/93	10/19/93	AAZ4_310190925	Arsenic	0.0064 B	(0.001)		0.050 MCL
EV-137	7421	NS	10/04/93	10/17/93	AAZ2_310171000	Lead	ND	(0.0011)		0.050 MCL
EV-137	7470	NS	10/04/93	10/12/93	AAZ3_310122100	Mercury	ND	(0.0001)		0.0020 MCL
EV-137	7740	NS	10/04/93	10/19/93	AAZ3_310191318	Selenium	ND	(0.0008)		0.010 MCL
EV-140	8010	NS	10/04/93	10/07/93	GCTEX1310061111	1,1-Dichloroethane Trichloroethane cis-1,2-Dichloroethane	1.9 75 17	(0.0444) (0.146) (0.0732)		5.0 MCL 5.0 MCL 6.0 MCL
EV-140	8020	FD	10/04/93	10/08/93	GCTEX1310071520	Trichloroethane cis-1,2-Dichloroethane	85 19	(0.732) (0.366)		5.0 MCL 6.0 MCL
EV-140	8020	NS	10/04/93	10/07/93	GCTEX2310061111	Benzene Toluene	0.26 0.25	(0.166) (0.163)		1.0 MCL
EV-140	6010	NS	10/04/93	10/15/93	ENJA61310151001	Barium Beryllium Calcium Chromium Iron Magnesium Manganese Potassium Sodium Vanadium Zinc	0.093 0.00070 24 0.012 0.071 B 18 0.0013 B 1.4 18 B 0.021 0.0028	(0.0005) (0.0006) (0.148) (0.0025) (0.006) (0.0228) (0.0004) (0.37) (0.0397) (0.0024) (0.0015)		1.0 MCL 0.050 MCL
EV-140	7060	NS	10/04/93	10/19/93	AAZ4_310190925	Arsenic	0.0023 B	(0.001)	R	0.050 MCL
EV-140	7421	NS	10/04/93	10/17/93	AAZ2_310171000	Lead	0.0049 B	(0.0011)	R	0.050 MCL
EV-140	7470	NS	10/04/93	10/12/93	AAZ3_310122100	Mercury	0.00010	(0.0001)		0.0020 MCL

TABLE 3 (Continued)

Well	Method	Field Analysis	Date Sampled	Date Analyzed	Batch ID	Analyte	Result	Reporting Limit	Qualified Results	Action Level
EV-140	7740	MS	10/04/93	10/19/93	AAZ3_310191318	Selenium	ND S	(0.0008)		0.010 MCL
EV-141	8010	MS	10/04/93	10/07/93	6CTEX1310061111	1,1-Dichloroethane Trichloroethane cis-1,2-Dichloroethane	2.5 H 67 H 12 H	(0.0444) (0.146) (0.0732)		5.0 MCL 5.0 MCL 6.0 MCL
EV-141	8020	MS	10/04/93	10/07/93	6CTEX2310061111	No Analytes Detected	ND			
EV-141	8010	MS	10/04/93	10/15/93	ENJAG1310151001	Barium Calcium Chromium Magnesium Manganese Potassium Sodium Vanadium	0.093 26 0.015 20 0.00040 B 1.5 19 B 0.022	(0.0005) (0.148) (0.0025) (0.0228) (0.0004) (0.37) (0.0397) (0.0024)	R	1.0 MCL 0.050 MCL
EV-141	7060	MS	10/04/93	10/19/93	AAZ4_310190925	Arsenic	0.0022 B	(0.001)	R	0.050 MCL
EV-141	7421	MS	10/04/93	10/17/93	AAZ2_310171000	Lead	0.010 B	(0.0011)		0.050 MCL
EV-141	7470	MS	10/04/93	10/12/93	AAZ3_310122100	Mercury	ND	(0.0001)		0.0020 MCL
EV-141	7740	MS	10/04/93	10/19/93	AAZ3_310191318	Selenium	0.0017 S	(0.0008)		0.010 MCL
EV-144	8010	MS	10/12/93	10/19/93	6CPEA1310181246	Methylene Chloride Trichloroethane	5.7 B 371	(2.15) (1.94)	R	5.0 MCL
EV-144	8020	MS	10/12/93	10/19/93	6CPEA2310181246	No Analytes Detected	ND			
EV-144	8010	MS	10/12/93	10/15/93	ENJAG1310151001	Barium Cadmium Calcium Chromium Iron Lead Magnesium Manganese Potassium Sodium Thallium Vanadium	0.12 0.0021 28 0.016 0.13 B 0.044 22 0.00080 B 1.5 19 B 0.033 0.027	(0.0005) (0.0017) (0.148) (0.0025) (0.006) (0.027) (0.0228) (0.0004) (0.37) (0.0397) (0.0172) (0.0024)		1.0 MCL 0.010 MCL 0.050 MCL 0.050 MCL
EV-144	7060	MS	10/12/93	10/19/93	AAZ4_310190925	Arsenic	0.0045 B	(0.001)	R	0.050 MCL
EV-144	7421	MS	10/12/93	10/17/93	AAZ2_310171000	Lead	0.0042 B	(0.0011)	R	0.050 MCL

TABLE 3 (Continued)

Well	Method	Field Analysis	Date Sampled	Date Analyzed	Batch ID	Analyte	Result	Reporting Limit	Qualified Results	Action Level
EV-144	7470	NS	10/12/93	10/19/93	AAZ3_310191930	Mercury	ND	(0.0001)		0.0020 MCL
EV-144	7740	NS	10/12/93	10/19/93	AAZ3_310191318	Selenium	ND	(0.0008)		0.010 MCL
EV-233	8010	NS	10/20/93	10/27/93	GCJAY1310261953	Tetrachloroethene Trichloroethene	423 H 2330 H	(38) (51.5)		5.0 MCL 5.0 MCL
AB-233	8010	AB	10/20/93	10/27/93	GCJAY1310261953	No Analytes Detected	ND			
EV-233	8020	NS	10/20/93	10/27/93	GCJAY2310261953	No Analytes Detected	ND			
AB-233	8020	AB	10/20/93	10/27/93	GCJAY2310261953	No Analytes Detected	ND			
EV-233	6010	NS	10/20/93	10/26/93	ENJ461310261200	Barium Calcium Chromium Copper Iron Magnesium Potassium Selenium Sodium Vanadium Zinc	0.042 16 0.013 B 0.0063 0.041 B 11 B 0.42 0.058 15 0.023 0.020	(0.0005) (0.148) (0.0025) (0.0038) (0.006) (0.0228) (0.37) (0.0417) (0.0397) (0.0024) (0.0015)	R R,PF PF	1.0 MCL 0.050 MCL 0.010 MCL
MAQ9316	6010	FD	10/20/93	10/26/93	ENJ461310261200	Barium Calcium Chromium Iron Magnesium Potassium Sodium Vanadium Zinc	0.042 16 0.013 B 0.020 B 12 B 0.92 16 0.027 0.021	(0.0005) (0.148) (0.0025) (0.006) (0.0228) (0.37) (0.0397) (0.0024) (0.0015)		1.0 MCL 0.050 MCL
EV-233	7060	NS	10/20/93	10/27/93	AAZ4_310271128	Arsenic	0.0027	(0.001)		0.050 MCL
MAQ9316	7060	FD	10/20/93	10/27/93	AAZ4_310271128	Arsenic	0.0027	(0.001)		0.050 MCL
EV-233	7421	NS	10/20/93	10/27/93	AAZ2_310271400	Lead	0.0080 B	(0.0011)	R	0.050 MCL
MAQ9316	7421	FD	10/20/93	10/27/93	AAZ2_310271400	Lead	0.0080 B	(0.0011)		0.050 MCL
EV-233	7470	NS	10/20/93	10/27/93	AAZ3_310261900	Mercury	ND	(0.0001)		0.0020 MCL
MAQ9316	7470	FD	10/20/93	10/27/93	AAZ3_310261900	Mercury	ND	(0.0001)		0.0020 MCL

TABLE 3 (Continued)

Well	Method	Field Analysis	Date Sampled	Date Analyzed	Batch ID	Analyte	Result	Reporting Limit	Qualified Results	Action Level
EV-233	7740	MS	10/20/93	10/27/93	AAZ3_310271408	Selenium	ND S	(0.0008)		0.010 MCL
MA-236	7740	FD	10/20/93	10/27/93	AAZ3_310271408	Selenium	0.0015 S	(0.0008)		0.010 MCL
EV-234	8010	MS	10/12/93	10/19/93	6CPEA1310181246	Methylene Chloride Tetrachloroethene Trichloroethene	5.9 B 72 557	(2.15) (1.9) (1.94)	R	5.0 MCL 5.0 MCL
EV-234	8020	MS	10/12/93	10/19/93	6CPEA2310181246	No Analytes Detected	ND			
EV-234	8010	MS	10/12/93	10/15/93	ENJA61310151001	Barium Calcium Chromium Copper Iron Magnesium Manganese Potassium Sodium Thallium Vanadium Zinc	0.081 19 0.0042 0.012 1.7 B 13 0.051 B 0.73 17 B 0.019 0.016 0.13	(0.0005) (0.148) (0.0025) (0.0038) (0.006) (0.0228) (0.0004) (0.37) (0.0397) (0.0172) (0.0024) (0.0015)	1.0 MCL 0.050 MCL	
EV-234	7060	MS	10/12/93	10/19/93	AAZ4_310190925	Arsenic	0.0028 B	(0.001)	R	0.050 MCL
EV-234	7421	MS	10/12/93	10/17/93	AAZ2_310171000	Lead	0.013 B	(0.0011)		0.050 MCL
EV-234	7470	MS	10/12/93	10/19/93	AAZ3_310191930	Mercury	ND	(0.0001)		0.0020 MCL
EV-234	7740	MS	10/12/93	10/19/93	AAZ3_310191318	Selenium	ND	(0.0008)		0.010 MCL
MA-270	8020	MS	10/05/93	10/08/93	6CJAY2310081013	1,2-Dichlorobenzene Benzene Ethylbenzene Toluene Total Xylenes	0.080 C 0.46 C 0.29 C 22 P 0.48 C	(0.0796) (0.0519) (0.0436) (0.0647) (0.127)	G G G G G	130 AL 1.0 MCL 680 MCL 1750 MCL
MA-280	8010	MS	10/05/93	10/06/93	6CPEA1310061504	No Analytes Detected	ND			
MA-280	8020	MS	10/05/93	10/06/93	6CPEA2310061504	No Analytes Detected	ND			
MA-415	8010	MS	10/04/93	10/08/93	6CTEX1310071520	Methylene Chloride Tetrachloroethene Trichloroethene	6.5 H 134 H 410 H	(2.1) (1.88) (1.83)		5.0 MCL 5.0 MCL

TABLE 3 (Continued)

Well	Method	Field Analysis	Date Sampled	Date Analyzed	Batch ID	Analyte	Result	Reporting Limit	Qualified Results	Action Level
NW-41S	6010	NS	10/04/93	10/15/93	EKJA61310151001	Aluminum	0.039	(0.0284)		1.0 MCL
						Barium	0.061	(0.0005)		1.0 MCL
						Cadmium	0.0021	(0.0017)		0.010 MCL
						Calcium	23	(0.148)		
						Chromium	0.014	(0.0025)		0.050 MCL
						Iron	0.15 B	(0.006)		
						Magnesium	16	(0.0228)		
						Manganese	0.030 B	(0.0004)		
						Nickel	0.070	(0.0099)		
						Potassium	0.65	(0.37)		
						Sodium	18 B	(0.0397)		
						Vanadium	0.019	(0.0024)		
						Zinc	0.0093	(0.0015)		
NW-41S	7060	NS	10/04/93	10/19/93	AAZ4_310190925	Arsenic	0.0056 B	(0.001)		0.050 MCL
						Lead	0.0065 B	(0.0011)	R	0.050 MCL
						Mercury	0.00010	(0.0001)		0.0020 MCL
						Selenium	0.0011 S	(0.0008)		0.010 MCL
						1,1-Dichloroethene	2.8	(0.112)		6.0 MCL
						Trichloroethene	1.2	(0.0732)		5.0 MCL
						No Analytes Detected	ND			
						Aluminum	0.055	(0.0284)		1.0 MCL
						Barium	0.048	(0.0005)		1.0 MCL
						Calcium	14	(0.148)		
						Chromium	0.26 B	(0.0025)		0.050 MCL
						Cobalt	0.0072	(0.0034)		
						Copper	0.013	(0.0038)		
NW-44S	6010	NS	10/19/93	11/01/93	GCTEX1310311045	Iron	3.4 B	(0.006)		
						Lead	0.072 B	(0.027)	R	0.050 MCL
						Magnesium	10 B	(0.0228)		
						Manganese	0.16	(0.0004)		
						Nickel	0.50	(0.0099)		
						Potassium	1.1	(0.37)		
						Sodium	13	(0.0397)		
						Vanadium	0.016	(0.0024)		
						Zinc	0.0099	(0.0015)		
						Arsenic	0.0014	(0.001)		0.050 MCL
						Lead	0.058 B	(0.0011)		0.050 MCL
NW-44S	7060	NS	10/19/93	10/27/93	AAZ4_310271128	Arsenic				
						Lead				
NW-44S	7421	NS	10/19/93	10/27/93	AAZ2_310271400	Arsenic				
						Lead				

TABLE 3 (Continued)

Well	Method	Field Analysis	Date Sampled	Date Analyzed	Batch ID	Analyte	Result	Reporting Limit	Qualified Results	Action Level
MJ-44S	7470	MS	10/19/93	10/27/93	AAZ3_310261900	Mercury	ND	(0.0001)		0.0020 MCL
MJ-44S	7740	MS	10/19/93	10/28/93	AAZ3_310280916	Selenium	ND S	(0.0008)		0.010 MCL
MJ-65	8010	MS	10/14/93	10/21/93	6CTEX1310201812	Tetrachloroethene Trichloroethene	6.1 54	(0.375) (0.366)		5.0 MCL 5.0 MCL
MA0304	8010	FD	10/14/93	10/21/93	6CTEX1310201812	Tetrachloroethene Trichloroethene	6.7 59	(0.375) (0.366)		5.0 MCL 5.0 MCL
MJ-65	8020	MS	10/14/93	10/21/93	6CTEX2310201812	No Analytes Detected	ND			
MJ-65	6010	MS	10/14/93	10/21/93	ENJA61310211300	Aluminum Arsenic Barium Cadmium Calcium Chromium Copper Iron Lead Magnesium Manganese Molybdenum Nickel Potassium Selenium Silver Sodium Thallium Vanadium Zinc	12 B 1.6 1.2 0.13 49 0.82 0.32 2980 0.41 38 12 B 0.23 0.37 3.0 0.31 0.18 15 B 0.025 1.2 2.1 B	(0.0284) (0.0225) (0.0005) (0.0017) (0.148) (0.0025) (0.0038) (0.006) (0.027) (0.0228) (0.0004) (0.0046) (0.0089) (0.37) (0.0417) (0.0049) (0.0397) (0.0172) (0.0024) (0.0015)	1.0 MCL 0.050 MCL 1.0 MCL 0.010 MCL 0.050 MCL 0.050 MCL 0.050 MCL 0.050 MCL 0.010 MCL 0.050 MCL	
MJ-65	7060	MS	10/14/93	10/25/93	AAZ4_310251700	Arsenic	0.11	(0.001)		0.050 MCL
MJ-65	7421	MS	10/14/93	10/21/93	AAZ2_310211800	Lead	0.13	(0.0022)		0.050 MCL
MJ-65	7470	MS	10/14/93	10/19/93	AAZ3_310191930	Mercury	ND	(0.0001)		0.0020 MCL
MJ-65	7740	MS	10/14/93	10/24/93	AAZ3_310240900	Selenium	0.014	(0.0008)		0.010 MCL
MJ-68	8010	MS	10/22/93	11/02/93	GCPEA1311012012	No Analytes Detected	ND			
MJ-102	8010	MS	10/08/93	10/13/93	6CTEX1310131032	No Analytes Detected	ND			
MJ-104	8010	MS	10/16/93	10/28/93	GCPEA1310272245	Trichlorofluoromethane	0.079	(0.0603)		150 AL



TABLE 3 (Continued)

Well	Method	Field Analysis	Date Sampled	Date Analyzed	Batch ID	Analyte	Result	Reporting Limit	Qualified Results	Action Level
AB-104	8010	AS	10/16/93	10/28/93	6CPEA1310272245	No Analytes Detected	ND			
MA-104	8020	MS	10/16/93	10/28/93	6CPEA2310272245	Toluene	0.067 B	(0.033)	R	
AB-104	8020	AS	10/16/93	10/28/93	6CPEA2310272245	Toluene	0.084 B	(0.033)		
MA-104	6010	MS	10/16/93	10/21/93	ENJAG1310211300	Aluminum Barium Cadmium Calcium Chromium Iron Magnesium Manganese Nickel Potassium Sodium Vanadium	0.079 B 0.043 0.0024 14 0.012 0.067 9.5 0.0025 B 0.025 1.0 19 B 0.029	{0.0284} {0.0005} {0.0017} {0.148} {0.0025} {0.006} {0.0228} {0.0004} {0.0099} {0.37} {0.0397} {0.0024}	R           	1.0 MCL 1.0 MCL 0.010 MCL           
MA-104	7060	MS	10/16/93	10/25/93	AAZ4_310251700	Arsenic	0.0040	(0.001)		0.050 MCL
MA-104	7421	MS	10/16/93	10/21/93	AAZ2_310211800	Lead	ND	(0.0011)		0.050 MCL
MA-104	7470	MS	10/16/93	10/27/93	AAZ3_310261900	Mercury	ND	(0.0001)		0.0020 MCL
MA-104	7740	MS	10/16/93	10/24/93	AAZ3_310240900	Selenium	ND	(0.0008)		0.010 MCL
MA-105	8010	MS	10/07/93	10/11/93	6CPEA1310110950	Methylene Chloride	0.27 B,T	(0.043)	R	
AB-105	8010	AS	10/07/93	10/11/93	6CPEA1310110950	Methylene Chloride	0.38 B,T	(0.043)		
MA-105	6010	MS	10/07/93	10/12/93	ENJAG1310121600	Barium Calcium Chromium Iron Magnesium Manganese Potassium Sodium Vanadium Zinc	0.058 B 15 0.013 0.017 11 1.3 19 B 0.034 0.0015	{0.0005} {0.148} {0.0025} {0.006} {0.0228} {0.0004} {0.37} {0.0397} {0.0024} {0.0015}		1.0 MCL           
MA-105	7060	MS	10/07/93	10/20/93	AAZ4_310200922	Arsenic	0.0032	(0.001)		0.050 MCL
MA-105	7421	MS	10/07/93	10/17/93	AAZ2_310171000	Lead	0.018	(0.0011)		0.050 MCL

TABLE 3 (Continued)

Well	Method	Field Analysis	Date Sampled	Date Analyzed	Batch ID	Analyte	Result	Reporting Limit	Qualified Results	Action Level
MA-105	7470	NS	10/07/93	10/12/93	AAZ3_310122100	Mercury	ND	(0.0001)		0.0020 MCL
MA-105	7740	NS	10/07/93	10/21/93	AAZ3_310210841	Selenium	0.0015 S	(0.0008)		0.010 MCL
MA-109	8020	NS	10/21/93	10/31/93	GCTEX2310311045	No Analytes Detected	ND			
MA-109	6010	NS	10/21/93	10/26/93	ENJA61310261200	Arsenic Barium Beryllium Calcium Chromium Iron Magnesium Manganese Molybdenum Nickel Potassium Sodium Vanadium Zinc	0.034 0.032 0.00070 B 17 0.016 B 0.039 B 11 B 0.00070 0.0056 0.013 1.5 15 0.027 0.0035	(0.0225) (0.0005) (0.0006) (0.148) (0.0025) (0.006) (0.0228) (0.0004) (0.0046) (0.0089) (0.37) (0.0397) (0.0024) (0.0015)	R PF, R PR, R PF	0.050 MCL 1.0 MCL 0.050 MCL
MAQ9305	6010	FD	10/21/93	10/26/93	ENJA61310261200	Barium Calcium Chromium Iron Magnesium Manganese Nickel Potassium Sodium Vanadium Zinc	0.033 18 0.027 B 0.10 B 11 B 0.0031 0.019 1.7 15 0.031 0.0017	(0.0005) (0.148) (0.0025) (0.006) (0.0228) (0.0004) (0.0099) (0.37) (0.0397) (0.0024) (0.0015)		1.0 MCL 0.050 MCL
MA-109	7060	NS	10/21/93	10/27/93	AAZ4_310271128	Arsenic	0.0036	(0.001)		0.050 MCL
MAQ9305	7060	FD	10/21/93	10/27/93	AAZ4_310271128	Arsenic	0.0046	(0.001)		0.050 MCL
MA-109	7421	NS	10/21/93	10/27/93	AAZ2_310271400	Lead	0.0030 B	(0.0011)	PF, R	0.050 MCL
MAQ9305	7421	FD	10/21/93	10/27/93	AAZ2_310271400	Lead	0.0050 B	(0.0011)		0.050 MCL
MA-109	7470	NS	10/21/93	10/27/93	AAZ3_310261900	Mercury	ND	(0.0001)		0.0020 MCL
MAQ9305	7470	FD	10/21/93	10/27/93	AAZ3_310261900	Mercury	ND	(0.0001)		0.0020 MCL
MA-109	7740	NS	10/21/93	10/28/93	AAZ3_310281147	Selenium	0.0016 S	(0.0008)		0.010 MCL

TABLE 3 (Continued)

Well	Method	Field Analysis	Date Sampled	Date Analyzed	Batch ID	Analyte	Result	Reporting Limit	Qualified Results	Action Level
MA-112	7740	FD	10/21/93	10/28/93	AAZ3_310280916	Selenium	ND S	(0.0008)		0.010 MCL
MA-112	8010	NS	10/08/93	10/13/93	GCTEX1310131032	No Analytes Detected	ND			
MA-112	8020	NS	10/08/93	10/13/93	GCTEX2310131032	Toluene	0.23	(0.0813)		
MA-115	8010	NS	10/08/93	10/14/93	GCTEX1310131032	No Analytes Detected	ND			
MA-115	8020	NS	10/08/93	10/13/93	GCTEX2310131032	No Analytes Detected	ND			
MA-115	6010	NS	10/08/93	10/15/93	ENJAG1310151001	Aluminum Arsenic Barium Calcium Chromium Iron Magnesium Manganese Nickel Potassium Sodium Vanadium	0.048 0.22 0.065 15 0.21 1.0 B 11 0.024 B 0.023 1.1 14 B 0.042	(0.0284) (0.0225) (0.0005) (0.148) (0.0025) (0.006) (0.0228) (0.0004) (0.0098) (0.37) (0.0397) (0.0024)		1.0 MCL 0.050 MCL 1.0 MCL  0.050 MCL
MA-115	7060	NS	10/08/93	10/19/93	AAZ4_310190925	Arsenic	0.091 B	(0.002)		0.050 MCL
MA-115	7421	NS	10/08/93	10/17/93	AAZ2_310171000	Lead	ND	(0.0011)		0.050 MCL
MA-115	7470	NS	10/08/93	10/12/93	AAZ3_310122100	Mercury	0.00010	(0.0001)		0.0020 MCL
MA-115	7740	NS	10/08/93	10/19/93	AAZ3_310191318	Selenium	ND S	(0.0008)		0.010 MCL
MA-129	8010	NS	10/19/93	10/27/93	GCTEX1310261421	Trichloroethene	4260	(73.2)		5.0 MCL
MA-129	8020	NS	10/19/93	10/27/93	GCTEX2310261421	No Analytes Detected	ND			
MA-129	6010	NS	10/19/93	10/26/93	ENJAG1310261200	Arsenic Barium Calcium Chromium Iron Magnesium Potassium Sodium Vanadium	0.024 0.13 37 0.014 B 0.035 B 28 B 1.6 22 0.024	(0.0225) (0.0005) (0.148) (0.0025) (0.006) (0.0228) (0.37) (0.0397) (0.0024)	R R	0.050 MCL 1.0 MCL  0.050 MCL
MA-129	7060	NS	10/19/93	10/27/93	AAZ4_310271128	Arsenic	0.0013	(0.001)		0.050 MCL

TABLE 3 (Continued)

Well	Method	Field Analysis	Date Sampled	Date Analyzed	Batch ID	Analyte	Result	Reporting Limit	Qualified Results	Action Level
MU-129	7421	NS	10/19/93	10/27/93	AAZ2_310271400	Lead	ND	(0.0011)		0.050 MCL
MU-129	7470	NS	10/19/93	10/27/93	AAZ3_310261900	Mercury	ND	(0.0001)		0.0020 MCL
MU-129	7740	NS	10/19/93	10/28/93	AAZ3_310280916	Selenium	ND S	(0.0008)		0.010 MCL
MU-130	8010	NS	10/07/93	10/11/93	GCPEA1310110950	1,1-Dichloroethene 1,1-Dichloroethene Chloroform Trichloroethene cis-1,2-Dichloroethene	2.5 0.060 P 0.43 3.5 0.95	(0.0729) (0.0501) (0.0512) (0.0387) (0.0362)	6	5.0 MCL 6.0 MCL 100 PWCL 5.0 MCL 6.0 MCL
MU-130	6010	NS	10/07/93	10/12/93	EKAJ61310121600	Barium Calcium Chromium Iron Magnesium Manganese Potassium Sodium Vanadium Zinc	0.14 B 32 0.017 0.064 25 0.00070 1.7 22 B 0.025 0.0054	(0.0005) (0.148) (0.0025) (0.006) (0.0228) (0.0004) (0.37) (0.0397) (0.0024) (0.0015)		1.0 MCL 0.050 MCL
MU-130	7060	NS	10/07/93	10/20/93	AAZ4_310201415	Arsenic	0.0013	(0.001)		0.050 MCL
MU-130	7421	NS	10/07/93	10/17/93	AAZ2_310171000	Lead	0.015	(0.0011)		0.050 MCL
MU-130	7470	NS	10/07/93	10/12/93	AAZ3_310122100	Mercury	0.00010 B	(0.0001)	R	0.0020 MCL
MU-130	7740	NS	10/07/93	10/21/93	AAZ3_310210841	Selenium	ND S	(0.0008)		0.010 MCL
MU-134	8010	NS	10/06/93	10/08/93	GCPEA1310072345	Methylene Chloride Trichloroethene cis-1,2-Dichloroethene	0.067 P 3.2 0.42	(0.0562) (0.0387) (0.0362)	G	5.0 MCL 6.0 MCL
MU-134	8020	NS	10/06/93	10/08/93	GCPEA2310072345	No Analytes Detected	ND			
MU-134	6010	NS	10/06/93	10/12/93	EKAJ61310121600	Barium Calcium Chromium Iron Magnesium Manganese Nickel Potassium Sodium Vanadium	0.058 B 17 0.014 0.0091 13 0.00050 0.012 2.2 16 B 0.025	(0.0005) (0.148) (0.0025) (0.006) (0.0228) (0.0004) (0.0099) (0.37) (0.0397) (0.0024)		1.0 MCL 0.050 MCL

TABLE 3 (Continued)

Well	Method	Field Analysis	Date Sampled	Date Analyzed	Batch ID	Analyte	Result	Reporting Limit	Qualified Results	Action Level
MA-134	6010	NS	10/06/93	10/12/93	EMJ61310121600	Zinc	0.0024	(0.0015)		
MA-134	7060	NS	10/06/93	10/20/93	AAZ4_310200922	Arsenic	ND	(0.001)		0.050 MCL
MA-134	7421	NS	10/06/93	10/17/93	AAZ2_310171000	Lead	0.023	(0.0011)		0.050 MCL
MA-134	7470	NS	10/06/93	10/12/93	AAZ3_310122100	Mercury	0.00010	(0.0001)		0.0020 MCL
MA-134	7740	NS	10/06/93	10/20/93	AAZ3_310201235	Selenium	0.00090 S	(0.0008)		0.010 MCL
MA-135	8010	NS	10/06/93	10/08/93	GCPEA1310072345	1,2-Dichloroethane Chloroform Methylene Chloride Trichloroethene cis-1,2-Dichloroethene	0.14 H 0.52 H 0.14 B 11 H 2.1 H	(0.0286) (0.0512) (0.043) (0.0387) (0.0362)	R	0.50 MCL 100 PMCL 5.0 MCL 6.0 MCL
MA-135	8020	NS	10/06/93	10/06/93	GCPEA2310072345	No Analytes Detected	ND			
MAQ9307	8020	FD	10/06/93	10/08/93	GCPEA2310072345	No Analytes Detected	ND			
MA-135	6010	NS	10/06/93	10/12/93	EMJ61310121600	Barium Calcium Chromium Iron Magnesium Manganese Potassium Sodium Vanadium Zinc	0.056 B 18 0.013 0.013 11 0.00050 1.5 15 B 0.028 0.0042	(0.0005) (0.148) (0.0025) (0.006) (0.0228) (0.0004) (0.37) (0.0397) (0.0024) (0.0015)		1.0 MCL 0.050 MCL
MA-135	7060	NS	10/06/93	10/20/93	AAZ4_310200922	Arsenic	ND	(0.001)		0.050 MCL
MA-135	7421	NS	10/06/93	10/17/93	AAZ2_310171000	Lead	0.011	(0.0011)		0.050 MCL
MA-135	7470	NS	10/06/93	10/12/93	AAZ3_310122100	Mercury	0.00010	(0.0001)		0.0020 MCL
MA-135	7740	NS	10/06/93	10/20/93	AAZ3_310201235	Selenium	ND S	(0.0008)		0.010 MCL
MA-139	8010	NS	10/05/93	10/07/93	GCPEA1310061504	1,1-Dichloroethane Trichloroethene cis-1,2-Dichloroethene	11 108 21	(0.729) (0.387) (0.362)		5.0 MCL 5.0 MCL 6.0 MCL
MA-139	8020	NS	10/05/93	10/07/93	GCPEA2310061504	No Analytes Detected	ND			
MA-139	6010	NS	10/05/93	10/12/93	EMJ61310121600	Barium Calcium	0.14 B 44	(0.0005) (0.148)		1.0 MCL

Well	Method	Field Analysis	Date Sampled	Date Analyzed	Batch ID	Analyte	Result	Reporting Limit	Qualified Results	Action Level																								
MW-139	6010	MS	10/05/93	10/12/93	ENJA61310121600	Chromium	0.028	(0.0025)		0.050 MCL																								
						Copper	0.0038	(0.0038)																										
						Iron	0.12	(0.006)																										
						Lead	0.030	(0.027)																										
						Magnesium	33	(0.0228)																										
						Manganese	0.036	(0.0004)																										
						Molybdenum	0.0047	(0.0046)																										
						Nickel	0.15	(0.0099)																										
						Potassium	2.0	(0.37)																										
						Sodium	24 B	(0.0397)																										
Vanadium	0.022	(0.0024)																																
Zinc	0.0085	(0.0015)																																
MW-139	7060	MS	10/05/93	10/20/93	AAZ4_310200922	Arsenic	ND	(0.001)		0.050 MCL																								
						Lead	0.014	(0.0011)																										
							Mercury	0.00010	(0.0001)																									
								Selenium	ND		(0.0008)																							
									Trichloroethene		1.0	(0.0732)																						
											Aluminum	0.085	(0.0284)																					
												Barium	0.024	(0.0005)																				
													Cadmium	0.0030	(0.0017)																			
														Calcium	9.4	(0.148)																		
															Chromium	0.11	(0.0025)																	
Copper	0.0062	(0.0038)																																
	Iron	4.2 B	(0.006)																															
		Lead	0.042	(0.027)																														
			Magnesium	5.8	(0.0228)																													
				Manganese	0.061 B	(0.0004)																												
					Nickel	0.15	(0.0099)																											
						Potassium	26	(0.37)																										
							Sodium	23 B	(0.0397)																									
								Thallium	0.032	(0.0172)																								
Vanadium									0.011	(0.0024)																								
	Zinc								0.060	(0.0015)																								
		MW-147							7060	MS	10/08/93	10/19/93	AAZ4_310190925	Arsenic	0.093 B	(0.002)		0.050 MCL																
			Lead											0.013 B	(0.0011)																			
				Mercury										0.00010	(0.0001)																			
					Selenium									ND S	(0.0008)																			
						MW-147								7421	MS	10/08/93	10/17/93		AAZ2_310171000				0.050 MCL											
							MW-147													7470	MS	10/08/93		10/12/93	AAZ3_310122100				0.0020 MCL					
								MW-147																		7740	MS	10/08/93		10/19/93	AAZ3_310191318			

TABLE 3 (Continued)

Well	Method	Field Analysis	Date Sampled	Date Analyzed	Batch ID	Analyte	Result	Reporting Limit	Qualified Results	Action Level
MA-149	8010	NS	10/06/93	10/06/93	GCPEA1310072345	Methylene Chloride Trichloroethene cis-1,2-Dichloroethene	0.33 PB 2.0 0.60	(0.043) (0.0387) (0.0362)	R	5.0 MCL 6.0 MCL
MA-149	8020	NS	10/06/93	10/06/93	GCPEA2310072345	No Analytes Detected	ND			
MAQ8309	8020	FD	10/06/93	10/06/93	GCPEA2310072345	No Analytes Detected	ND			
MA-150	8010	NS	10/12/93	10/19/93	GCPEA1310181246	Carbon Tetrachloride Chloroethane Methylene Chloride Tetrachloroethene Trichloroethene	0.24 0.039 PB 0.26 B 0.26 P 1.5	(0.0444) (0.0213) (0.043) (0.0381) (0.0387)	R R PF PF	0.50 MCL 5.0 MCL 5.0 MCL
MAQ8310	8010	FD	10/12/93	10/19/93	GCPEA1310181246	Carbon Tetrachloride Tetrachloroethene Trichloroethene	0.24 0.16 P 0.56	(0.0444) (0.0759) (0.0387)	G	0.50 MCL 5.0 MCL 5.0 MCL
MA-151	8010	NS	10/12/93	10/19/93	GCPEA1310181246	Tetrachloroethene Trichloroethene	2.0 0.25	(0.0381) (0.0387)		5.0 MCL 5.0 MCL
MA-152	8010	NS	10/12/93	10/19/93	GCPEA1310181246	Methylene Chloride Trichloroethene	0.15 B,T 0.11	(0.043) (0.0387)	R	5.0 MCL
MA-153	8010	NS	10/13/93	10/16/93	GCPEA1310151440	1,1-Dichloroethene Chloroform Methylene Chloride Tetrachloroethene Trichloroethene cis-1,2-Dichloroethene	0.43 P 0.82 0.50 B 6.6 67 B 7.1	(0.1) (0.102) (0.086) (0.0762) (0.0774) (0.0724)	G R	6.0 MCL 100 PMCL 5.0 MCL 5.0 MCL 6.0 MCL
EB-153	8010	EB	10/13/93	10/16/93	GCPEA1310151440	Trichloroethene	4.0 B	(0.0387)		5.0 MCL
MA-156	8010	NS	10/06/93	10/06/93	GCPEA1310072345	1,2-Dichloroethene Chloroform Methylene Chloride Trichloroethene cis-1,2-Dichloroethene	0.77 1.5 0.79 P 133 46	(0.143) (0.256) (0.281) (0.194) (0.181)	G	0.50 MCL 100 PMCL 5.0 MCL 6.0 MCL
MA-160	8010	NS	10/14/93	10/21/93	GCTEX1310201812	Trichloroethene	73	(0.732)		5.0 MCL
MA-160	8020	NS	10/14/93	10/21/93	GCTEX2310201812	1,2-Dichlorobenzene Benzene Total Xylenes	0.15 0.50 0.29	(0.0784) (0.0832) (0.0811)		130 AL 1.0 MCL 1750 MCL

TABLE 3 (Continued)

Well	Method	Field Analysis	Date Sampled	Date Analyzed	Batch ID	Analyte	Result	Reporting Limit	Qualified Results	Action Level
MA-163	8020	FD	10/14/93	10/21/93	GCTEX2310201812	1,2-Dichlorobenzene Benzene Total Xylenes	0.15 0.51 0.31	(0.0784) (0.0632) (0.0611)		130 AL 1.0 MCL 1750 MCL
MA-163	8020	NS	10/12/93	10/15/93	GCPEA2310151440	No Analytes Detected	ND			
MA-164	8010	NS	10/13/93	10/20/93	GCTEX1310191403	1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethane Chloroform Trichloroethane cis-1,2-Dichloroethane	1.5 H 2.1 H 0.17 H 0.24 H 15 H 9.8 H	(0.0222) (0.112) (0.0623) (0.0258) (0.0732) (0.0366)		5.0 MCL 6.0 MCL 0.50 MCL 100 MCL 5.0 MCL 6.0 MCL
EB-164	8010	EB	10/13/93	10/16/93	GCPEA1310151440	Trichloroethane	0.067 B	(0.0387)		5.0 MCL
MA-164	8020	NS	10/13/93	10/20/93	GCTEX2310191403	No Analytes Detected	ND			
EB-164	8020	EB	10/13/93	10/16/93	GCPEA2310151440	No Analytes Detected	ND			
MA-164	6010	NS	10/13/93	10/18/93	ENJAG1310181927	Aluminum Barium Calcium Chromium Cobalt Copper Iron Magnesium Manganese Molybdenum Nickel Potassium Sodium Thallium Vanadium Zinc	0.32 0.071 19 1.9 0.011 0.039 8.0 13 0.11 0.017 0.080 1.1 18 0.018 B 0.057 0.14	(0.0284) (0.0005) (0.148) (0.0025) (0.0034) (0.0038) (0.006) (0.0228) (0.0004) (0.0046) (0.0099) (0.37) (0.0397) (0.0172) (0.0024) (0.0015)		1.0 MCL 1.0 MCL 0.050 MCL
MA-164	7060	NS	10/13/93	10/25/93	AAZ4_310251700	Arsenic	0.0089	(0.001)		0.050 MCL
MA-164	7421	NS	10/13/93	10/18/93	AAZ1_310181800	Lead	0.010 S B	(0.0008)		0.050 MCL
MA-164	7470	NS	10/13/93	10/19/93	AAZ3_310191930	Mercury	ND	(0.0001)		0.0020 MCL
MA-164	7740	NS	10/13/93	10/24/93	AAZ3_310240900	Selenium	ND	(0.0008)		0.010 MCL
MA-165	8010	NS	10/06/93	10/08/93	GCPEA1310072345	1,1-Dichloroethane Chloroform Methylene Chloride	3.2 1.4 0.46 P	(0.364) (0.256) (0.281)		5.0 MCL 100 MCL

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TABLE 3 (Continued)

Well	Method	Field Analysis	Date Sampled	Date Analyzed	Batch ID	Analyte	Result	Reporting Limit	Qualified Results	Action Level
MJ-165	8010	NS	10/06/93	10/08/93	GCPEA1310072345	Trichloroethene cis-1,2-Dichloroethene	125 33	(0.194) (0.181)		5.0 MCL 6.0 MCL
MJ-165	8020	NS	10/06/93	10/08/93	GCPEA2310072345	No Analytes Detected	ND			
MJ-165	6010	NS	10/06/93	10/12/93	ENJA61310121600	Barium Iron Magnesium Sodium Zinc	0.00050 B 0.015 0.023 0.17 B 0.0032	(0.0005) (0.006) (0.0228) (0.0397) (0.0015)	R   R	1.0 MCL
EB-165	6010	EB	10/06/93	10/12/93	ENJA61310121600	Aluminum Barium Calcium Chromium Cobalt Copper Iron Magnesium Manganese Nickel Potassium Sodium Vanadium Zinc	0.065 0.095 B 29 0.030 0.012 0.013 1.1 24 0.24 1.1 8.1 25 B 0.011 0.047	(0.0284) (0.0005) (0.148) (0.0025) (0.0034) (0.0038) (0.006) (0.0228) (0.0004) (0.0099) (0.37) (0.0397) (0.0024) (0.0015)		1.0 MCL 1.0 MCL 0.050 MCL
MJ-165	7060	NS	10/06/93	10/20/93	AAZ4_310200922	Arsenic	ND	(0.001)		0.050 MCL
EB-165	7060	EB	10/06/93	10/20/93	AAZ4_310200922	Arsenic	ND	(0.001)		0.050 MCL
MJ-165	7421	NS	10/06/93	10/17/93	AAZ2_310171000	Lead	0.0097	(0.0011)	0	0.050 MCL
EB-165	7421	EB	10/06/93	10/17/93	AAZ2_310171000	Lead	0.014	(0.0011)		0.050 MCL
MJ-165	7470	NS	10/06/93	10/12/93	AAZ3_310122100	Mercury	0.00010	(0.0001)		0.0020 MCL
EB-165	7470	EB	10/06/93	10/12/93	AAZ3_310122100	Mercury	0.00010	(0.0001)		0.0020 MCL
MJ-165	7740	NS	10/06/93	10/20/93	AAZ3_310201235	Selenium	0.0018 S	(0.0008)	0	0.010 MCL
EB-165	7740	EB	10/06/93	10/20/93	AAZ3_310201235	Selenium	0.00090 S	(0.0008)		0.010 MCL
MJ-169	8010	NS	10/11/93	10/15/93	GCTEX1310141252	Trichloroethene Chlorovinylether	2.2 H ND	(0.0732)	PL	5.0 MCL
MJ-169	8020	NS	10/11/93	10/15/93	GCTEX2310141252	No Analytes Detected	ND			
MJ-175	8010	NS	10/14/93	10/21/93	GCTEX1310201812	No Analytes Detected	ND			

TABLE 3 (Continued)

Well	Method	Field Analysis	Date Sampled	Date Analyzed	Batch ID	Analyte	Result	Reporting Limit	Qualified Results	Action Level
MJ-176	8010	NS	10/14/93	10/21/93	6CTEX1310201812	No Analytes Detected	ND			
EB-176	8010	EB	10/14/93	10/21/93	6CTEX1310201812	No Analytes Detected	ND			
MJ-176	8020	NS	10/14/93	10/21/93	6CTEX2310201812	No Analytes Detected	ND			
EB-176	8020	EB	10/14/93	10/21/93	6CTEX2310201812	No Analytes Detected	ND			
MJ-178	8010	NS	10/11/93	10/15/93	6CTEX1310141252	Carbon Tetrachloride Chlorovinylethylether Trichloroethene	4.8 H ND 45 H	(0.427)  (0.366)	PL  PL	0.50 MCL  5.0 MCL
MJ-178	8020	NS	10/11/93	10/15/93	6CTEX2310141252	No Analytes Detected	ND			
MJQ312	8020	FD	10/11/93	10/15/93	6CTEX2310141252	No Analytes Detected	ND			
MJ-180	8010	NS	10/11/93	10/15/93	6CTEX1310141252	Chlorovinylethylether	ND		PL	
AB-180	8010	AB	10/11/93	10/15/93	6CTEX1310141252	No Analytes Detected	ND			
MJ-180	8020	NS	10/11/93	10/15/93	6CTEX2310141252	Chlorovinylethylether	ND		PL	
AB-180	8020	AB	10/11/93	10/15/93	6CTEX2310141252	No Analytes Detected	ND			
MJ-180	6010	NS	10/11/93	10/15/93	ENJ461310151001	Aluminum Barium Calcium Chromium Iron Magnesium Manganese Nickel Potassium Sodium Vanadium Zinc	0.15 0.044 14 0.046 0.56 B 10 0.022 B 0.14 4.2 16 B 0.028 0.031	(0.0284) (0.0005) (0.148) (0.0025) (0.006) (0.0228) (0.0004) (0.0099) (0.37) (0.0397) (0.0024) (0.0015)		1.0 MCL 1.0 MCL 0.050 MCL
MJ-180	7060	NS	10/11/93	10/19/93	AAZ4_310190925	Arsenic	0.0043 B	(0.001)		0.050 MCL
MJ-180	7421	NS	10/11/93	10/17/93	AAZ2_310171000	Lead	0.0034 B	(0.0011)	R	0.050 MCL
MJ-180	7470	NS	10/11/93	10/19/93	AAZ3_310191930	Mercury	ND	(0.0001)		0.0020 MCL
MJ-180	7740	NS	10/11/93	10/19/93	AAZ3_310191318	Selenium	ND S	(0.0008)		0.010 MCL
MJ-184	8010	NS	10/15/93	10/20/93	6CTEX1310191403	No Analytes Detected	ND			

Well	Method	Field Analysis	Date Sampled	Date Analyzed	Batch ID	Analyte	Result	Reporting Limit	Qualified Results	Action Level							
MW-104	6020	MS	10/15/93	10/20/93	6CTEX2310191403	No Analytes Detected	ND										
	6010	MS	10/15/93	10/21/93	ENJAM61310211300	Aluminum	0.044 B	(0.0284)	R	1.0 MCL							
						Barium	0.046	(0.0005)		1.0 MCL							
						Cadmium	0.0021	(0.0017)		0.010 MCL							
						Calcium	19	(0.148)									
EB-104	6010	EB	10/15/93	10/21/93	ENJAM61310211300	Chromium	0.010	(0.0025)	0	0.050 MCL							
						Cobalt	0.0037	(0.0034)									
						Iron	0.69	(0.006)									
						Magnesium	13	(0.0228)									
						Manganese	0.046 B	(0.0004)									
						Potassium	3.7	(0.37)									
						Sodium	19 B	(0.0397)									
						Vanadium	0.021	(0.0024)									
						Zinc	0.45 B	(0.0015)									
						MW-184	7060	MS			10/15/93	10/21/93	ENJAM61310211300	Aluminum	0.033 B	(0.0284)	
Cobalt	0.0035	(0.0034)															
Iron	0.40	(0.006)															
Manganese	0.0028 B	(0.0004)															
Sodium	0.23 B	(0.0397)															
Zinc	0.0026 B	(0.0015)															
Arsenic	0.0026	(0.001)	0.050 MCL														
EB-104	7060	EB	10/15/93	10/25/93	AAZ4_310251700				Arsenic	ND				(0.001)	0.050 MCL		
MW-104	7421	MS	10/15/93	10/21/93	AAZ2_310211800				Lead	0.0060				(0.0011)	0.050 MCL		
EB-104	7421	EB	10/15/93	10/21/93	AAZ2_310211800	Lead	0.0011	(0.0011)	0.050 MCL								
MW-104	7470	MS	10/15/93	10/19/93	AAZ3_310191930	Mercury	ND	(0.0001)	0.0020 MCL								
EB-104	7470	EB	10/15/93	10/19/93	AAZ3_310191930	Mercury	ND	(0.0001)	0.0020 MCL								
MW-104	7740	MS	10/15/93	10/24/93	AAZ3_310240900	Selenium	ND	(0.0008)	0.010 MCL								
EB-104	7740	EB	10/15/93	10/24/93	AAZ3_310240900	Selenium	ND	(0.0008)	0.010 MCL								
MW-185	6010	MS	10/05/93	10/07/93	GCPEA1310061504	Trichloroethene	3.0 H	(0.0387)	5.0 MCL								
						cis-1,2-Dichloroethene	2.1 H	(0.0362)	6.0 MCL								
MW08313	6010	FD	10/05/93	10/07/93	GCPEA1310061504	Trichloroethene	3.4	(0.0387)	5.0 MCL								
						cis-1,2-Dichloroethene	2.3	(0.0362)	6.0 MCL								
MW-186	8010	MS	10/22/93	11/02/93	GCPEA1311012012	Carbon Tetrachloride	0.58	(0.0888)	0.50 MCL								
						Chloroform	0.82	(0.102)	100 PMCL								
						Tetrachloroethene	0.19	(0.0762)	5.0 MCL								

TABLE 3 (Continued)

Well	Method	Field Analysis	Date Sampled	Date Analyzed	Batch ID	Analyte	Result	Reporting Limit	Qualified Results	Action Level
NA-186	8010	NS	10/22/93	11/02/93	GCPEA1311012012	Trichloroethene	55	(0.0774)		5.0 MCL
NA-186	8020	NS	10/22/93	11/02/93	GCPEA2311012012	No Analytes Detected	ND			
NA-186	6010	NS	10/22/93	10/26/93	ENJA61310281500	Aluminum Barium Cadmium Calcium Chromium Cobalt Copper Iron Magnesium Manganese Molybdenum Nickel Potassium Sodium Thallium Vanadium Zinc	0.42 0.14 0.0021 22 5.4 0.048 0.25 B 79 15 0.43 B 0.044 0.68 0.73 16 B 0.026 0.14 0.027 B	(0.0284) (0.0005) (0.0017) (0.148) (0.0025) (0.0034) (0.0038) (0.006) (0.0228) (0.0004) (0.0046) (0.0099) (0.37) (0.0397) (0.0172) (0.0024) (0.0015)		1.0 MCL 1.0 MCL 0.010 MCL 0.050 MCL
NA-186	7060	NS	10/22/93	10/31/93	AAZ4_310311044	Arsenic	0.024	(0.001)		0.050 MCL
NA-186	7421	NS	10/22/93	10/31/93	AAZ2_310311000	Lead	0.013 SB	(0.0011)	R	0.050 MCL
NA-186	7470	NS	10/22/93	11/02/93	AAZ3_311021900	Mercury	ND	(0.0001)		0.0020 MCL
NA-186	7740	NS	10/22/93	10/26/93	AAZ3_310281147	Selenium	ND	(0.0008)		0.010 MCL
NA-190	8010	NS	10/15/93	10/20/93	GCTEX1310191403	No Analytes Detected	ND			
AB-190	8010	AB	10/15/93	10/20/93	GCTEX1310191403	No Analytes Detected	ND			
NA-190	8020	NS	10/15/93	10/20/93	GCTEX2310191403	No Analytes Detected	ND			
AB-190	8020	AB	10/15/93	10/20/93	GCTEX2310191403	No Analytes Detected	ND			
NA-190	6010	NS	10/15/93	10/21/93	ENJA61310211300	Aluminum Barium Cadmium Calcium Chromium Iron Magnesium Manganese Nickel	0.084 B 0.048 0.0028 19 0.017 5.8 13 0.073 B 0.013	(0.0284) (0.0005) (0.0017) (0.148) (0.0025) (0.006) (0.0228) (0.0004) (0.0099)	R  M M M	1.0 MCL 1.0 MCL 0.010 MCL 0.050 MCL

TABLE 3 (Continued)

Well	Method	Field Analysis	Date Sampled	Date Analyzed	Batch ID	Analyte	Result	Reporting Limit	Qualified Results	Action Level
MA-190	6010	NS	10/15/93	10/21/93	ENJAG1310211300	Potassium Sodium Vanadium Zinc	3.3 19.8 0.021 0.47 B	(0.37) (0.0397) (0.0024) (0.0015)	M M	
MA-190	7060	NS	10/15/93	10/25/93	AAZ4_310251700	Arsenic	0.0020	(0.001)		0.050 MCL
MA-190	7421	NS	10/15/93	10/21/93	AAZ2_310211800	Lead	ND	(0.0011)		0.050 MCL
MA-190	7470	NS	10/15/93	10/19/93	AAZ3_310191930	Mercury	ND	(0.0001)		0.0020 MCL
MA-190	7740	NS	10/15/93	10/24/93	AAZ3_310240900	Selenium	ND	(0.0017)		0.010 MCL
MA-191	8010	NS	10/20/93	11/01/93	GCTEX1310311045	Tetrachloroethene Trichloroethene	0.19 H 25 H	(0.075) (0.0732)		5.0 MCL 5.0 MCL
MA-191	8010	NS	10/20/93	10/30/93	GCPEAZ310291803	Toluene	0.066 T	(0.0330)		
MA-194	8010	NS	10/04/93	10/07/93	GCTEX1310071520	Tetrachloroethene Trichloroethene	0.20 H 3.0 H	(0.075) (0.0732)		5.0 MCL 5.0 MCL
AB-194	8010	AB	10/04/93	10/07/93	GCTEX1310061111	No Analytes Detected	ND			
MA-194	6010	NS	10/04/93	10/15/93	ENJAG1310151001	Aluminum Barium Calcium Chromium Copper Iron Lead Magnesium Manganese Molybdenum Nickel Potassium Sodium Thallium Vanadium Zinc	0.40 0.039 11 1.3 0.034 4.3 B 0.028 7.6 0.027 B 0.013 0.026 0.68 13 B 0.024 0.047 0.038	(0.0284) (0.0005) (0.148) (0.0025) (0.0038) (0.006) (0.027) (0.0228) (0.0004) (0.0046) (0.0099) (0.37) (0.0397) (0.0172) (0.0024) (0.0015)		1.0 MCL 1.0 MCL 0.050 MCL 0.050 MCL
MAQ9314	6010	FD	10/04/93	10/15/93	ENJAG1310151001	Aluminum Antimony Barium Calcium Chromium Copper Iron	0.49 0.025 0.041 12 1.4 0.038 4.9 B	(0.0284) (0.0241) (0.0005) (0.148) (0.0025) (0.0038) (0.006)		1.0 MCL 1.0 MCL 0.050 MCL

TABLE 3 (Continued)

Well	Method	Field Analysis	Date Sampled	Date Analyzed	Batch ID	Analyte	Result	Reporting Limit	Qualified Results	Action Level
MAQ9314	6010	FD	10/04/93	10/15/93	EMJAE1310151001	Lead	0.030	(0.027)		0.050 MCL
						Magnesium	7.7	(0.0228)		
						Manganese	0.030 B	(0.0004)		
						Molybdenum	0.013	(0.0046)		
						Nickel	0.033	(0.0099)		
						Sodium	13 B	(0.0397)		
						Thallium	0.028	(0.0172)		
						Vanadium	0.049	(0.0024)		
						Zinc	0.039	(0.0015)		
MA-194	7060	NS	10/04/93	10/19/93	AAZ4_310190925	Arsenic	0.0068 B	(0.001)		0.050 MCL
MAQ9314	7060	FD	10/04/93	10/19/93	AAZ4_310190925	Arsenic	0.010 B	(0.001)		0.050 MCL
MA-194	7421	NS	10/04/93	10/17/93	AAZ2_310171000	Lead	0.0051 B	(0.0011)	PF, R	0.050 MCL
MAQ9314	7421	FD	10/04/93	10/17/93	AAZ2_310171000	Lead	0.013 B	(0.0011)		0.050 MCL
MA-194	7470	NS	10/04/93	10/12/93	AAZ3_310122100	Mercury	0.00010	(0.0001)		0.0020 MCL
MAQ9314	7470	FD	10/04/93	10/12/93	AAZ3_310122100	Mercury	0.00010	(0.0001)		0.0020 MCL
MA-194	7740	NS	10/04/93	10/19/93	AAZ3_310191318	Selenium	ND S	(0.0008)		0.010 MCL
MAQ9314	7740	FD	10/04/93	10/19/93	AAZ3_310191318	Selenium	ND S	(0.0008)		0.010 MCL
MA-197	8010	NS	10/14/93	10/21/93	GCTEX1310201812	No Analytes Detected	ND			
MA-197	8020	NS	10/14/93	10/21/93	GCTEX2310201812	No Analytes Detected	ND			
MA-198	8010	NS	10/07/93	10/11/93	GCPEA1310110950	Methylene Chloride	0.57 B	(0.043)	R	5.0 MCL
						Tetrachloroethene	2.9	(0.0381)		5.0 MCL
						Trichloroethene	19	(0.0387)		6.0 MCL
						cis-1,2-Dichloroethene	0.41	(0.0362)		
EB-198	8010	EB	10/07/93	10/11/93	GCPEA1310110950	Methylene Chloride	0.31 B, T	(0.043)		
MA-198	8020	NS	10/07/93	10/11/93	GCPEA2310110950	No Analytes Detected	ND			
MA-200	8010	NS	10/21/93	11/02/93	GCTEX1311011732	Chloroform	1.5 H	(0.0258)		100 PMCL
						Methylene Chloride	1.3 H	(0.0842)		5.0 MCL
						Trichloroethene	13 H	(0.0732)		6.0 MCL
						cis-1,2-Dichloroethene	12 H	(0.0366)		
MA-200	6010	NS	10/21/93	10/26/93	EMJAE1310261200	Aluminum	0.039	(0.0284)		1.0 MCL
						Barium	0.064	(0.0005)		1.0 MCL
						Calcium	21	(0.148)		

TABLE 3 (Continued)

Well	Method	Field Analysis	Date Sampled	Date Analyzed	Batch ID	Analyte	Result	Reporting Limit	Qualified Results	Action Level
MA-200	6010	NS	10/21/93	10/26/93	ENJA61310261200	Chromium Iron Magnesium Manganese Nickel Potassium Sodium Vanadium Zinc	0.067 B 0.41 B 12 B 0.013 0.039 8.9 19 0.034 0.034	(0.0025) (0.006) (0.0228) (0.0004) (0.0089) (0.37) (0.0397) (0.0024) (0.0015)		0.050 MCL
MA-200	7060	NS	10/21/93	10/27/93	AAZ4_310271128	Arsenic	0.0038	(0.001)		0.050 MCL
MA-200	7421	NS	10/21/93	10/27/93	AAZ2_310271400	Lead	0.0050 B	(0.0011)	R	0.050 MCL
MA-200	7470	NS	10/21/93	10/27/93	AAZ3_310261900	Mercury	ND	(0.0001)		0.0020 MCL
MA-200	7740	NS	10/21/93	10/28/93	AAZ3_310281147	Selenium	ND S	(0.0008)		0.010 MCL
MA-201	8010	NS	10/06/93	10/13/93	6CTEX1310131032	Trichloroethene	0.80 H	(0.0732)		5.0 MCL
MA-203	8010	NS	10/11/93	10/15/93	6CTEX1310141252	Carbon Tetrachloride Chloroethylvinylether Chloroform Trichloroethene	0.19 0.11 24	(0.0854) (0.0258) (0.0732)	PL	0.50 MCL 100 PMCL 5.0 MCL
MA-203	8020	NS	10/11/93	10/15/93	6CTEX2310141252	Ethylbenzene Toluene Total Xylenes	0.15 P 0.14 P 0.69	(0.0436) (0.0813) (0.0811)	6	680 MCL 1750 MCL
MA-203	6010	NS	10/11/93	10/15/93	ENJA61310151001	Aluminum Barium Calcium Chromium Cobalt Copper Iron Magnesium Manganese Molybdenum Nickel Potassium Sodium Thallium Vanadium Zinc	0.45 0.18 38 3.7 0.0075 0.15 38 B 25 0.40 B 0.024 0.33 1.5 21 B 0.020 0.098 0.048	(0.0284) (0.0005) (0.148) (0.0025) (0.0034) (0.0038) (0.006) (0.0228) (0.0004) (0.0046) (0.0099) (0.37) (0.0397) (0.0172) (0.0024) (0.0015)		1.0 MCL 1.0 MCL 0.050 MCL
MA-203	7060	NS	10/11/93	10/19/93	AAZ4_310190925	Arsenic	0.020 B	(0.001)		0.050 MCL

TABLE 3 (Continued)

Well	Method	Field Analysis	Date Sampled	Date Analyzed	Batch ID	Analyte	Result	Reporting Limit	Qualified Results	Action Level
MU-203	7421	MS	10/11/93	10/17/93	AAZ2_310171000	Lead	0.0041 B	(0.0011)		0.050 MCL
MU-203	7470	MS	10/11/93	10/19/93	AAZ3_310191930	Mercury	ND	(0.0001)		0.0020 MCL
MU-203	7740	MS	10/11/93	10/19/93	AAZ3_310191318	Selenium	ND S	(0.0008)		0.010 MCL
MU-207	8010	MS	10/11/93	10/19/93	GCPEA1310181246	No Analytes Detected	ND			
AB-207	8010	AB	10/11/93	10/15/93	GCTEX1310141252	No Analytes Detected	ND			
EB-207	8010	EB	10/11/93	10/15/93	GCTEX1310141252	No Analytes Detected	ND			
MU-207	8020	MS	10/11/93	10/19/93	GCPEA2310181246	No Analytes Detected	ND			
AB-207	8020	AB	10/11/93	10/15/93	GCTEX2310141252	No Analytes Detected	ND			
EB-207	8020	EB	10/11/93	10/15/93	GCTEX2310141252	No Analytes Detected	ND			
MU-207	6010	MS	10/11/93	10/15/93	ENJA61310151001	Aluminum Barium Calcium Chromium Cobalt Iron Magnesium Manganese Nickel Potassium Sodium Vanadium Zinc	0.067 0.063 16 0.20 0.0042 1.3 B 12 0.092 B 0.21 2.3 17 B 0.026 0.19	(0.0284) (0.0005) (0.148) (0.0025) (0.0034) (0.006) (0.0228) (0.0004) (0.0099) (0.37) (0.0397) (0.0024) (0.0015)		1.0 MCL 1.0 MCL 0.050 MCL
MU-207	7060	MS	10/11/93	10/19/93	AAZ4_310190925	Arsenic	0.0042 B	(0.001)		0.050 MCL
MU-207	7421	MS	10/11/93	10/17/93	AAZ2_310171000	Lead	0.0051 B	(0.0011)	R	0.050 MCL
MU-207	7470	MS	10/11/93	10/19/93	AAZ3_310191930	Mercury	ND	(0.0001)		0.0020 MCL
MU-207	7740	MS	10/11/93	10/19/93	AAZ3_310191318	Selenium	0.00090 S	(0.0008)		0.010 MCL
MU-209	8010	MS	10/12/93	10/16/93	GCPEA1310151440	1,1,2-Trichloroethane 1,2-Dichloropropane Chloroform Trichloroethene cis-1,2-Dichloroethene	2.8 P 11 P 60 P 2810 PB 254 P	(1.72) (3.2) (5.12) (3.87) (3.62)		32 MCL 5.0 PMCL 100 PMCL 5.0 MCL 6.0 MCL



TABLE 3 (Continued)

Well	Method	Field Analysis	Date Sampled	Date Analyzed	Batch ID	Analyte	Result	Reporting Limit	Qualified Results	Action Level
MJ-209	8020	NS	10/12/93	10/16/93	GCPEA2310151440	1,2-Dichlorobenzene	0.36	(0.0263)		130 AL
						1,3-Dichlorobenzene	0.030	(0.0218)		130 AL
						1,4-Dichlorobenzene	0.10	(0.0131)		5.0 MCL
						Benzene	0.38	(0.0098)		1.0 MCL
						Chlorobenzene	1.5	(0.014)		30 AL
						Toluene	0.067	(0.033)		
MJ-209	6010	NS	10/12/93	10/15/93	ENJA61310151001	Aluminum	1.4	(0.0284)		1.0 MCL
						Barium	0.096	(0.0005)		1.0 MCL
						Beryllium	0.00060	(0.0006)		
						Calcium	28	(0.148)		
						Chromium	28	(0.0025)		0.050 MCL
						Copper	0.30	(0.0038)		
						Iron	63 B	(0.006)		
						Lead	0.052	(0.027)		0.050 MCL
						Magnesium	18	(0.0228)		
						Manganese	0.097 B	(0.0004)		
						Molybdenum	0.58	(0.0046)		
						Nickel	0.41	(0.0099)		
						Potassium	0.93	(0.37)		
						Sodium	19 B	(0.0397)		
						Thallium	0.050	(0.0172)	0	
						Vanadium	0.21	(0.0024)		
						Zinc	0.035	(0.0015)		
						Iron	0.0066 B	(0.006)		
						Sodium	0.22 B	(0.0397)		
						Thallium	0.022	(0.0172)		
EB-209	6010	EB	10/12/93	10/15/93	ENJA61310151001					
MJ-209	7060	NS	10/12/93	10/19/93	AAZ4_310190925	Arsenic	0.025 B	(0.001)		0.050 MCL
EB-209	7060	EB	10/12/93	10/19/93	AAZ4_310190925	Arsenic	ND	(0.001)		0.050 MCL
MJ-209	7421	NS	10/12/93	10/17/93	AAZ2_310171000	Lead	0.0058 B	(0.0011)	0	0.050 MCL
EB-209	7421	EB	10/12/93	10/17/93	AAZ2_310171000	Lead	0.040 B	(0.0011)		0.050 MCL
MJ-209	7470	NS	10/12/93	10/19/93	AAZ3_310191930	Mercury	ND	(0.0001)		0.0020 MCL
EB-209	7470	EB	10/12/93	10/19/93	AAZ3_310191930	Mercury	ND	(0.0001)		0.0020 MCL
MJ-209	7740	NS	10/12/93	10/19/93	AAZ3_310191318	Selenium	ND S	(0.0008)		0.010 MCL
EB-209	7740	EB	10/12/93	10/19/93	AAZ3_310191318	Selenium	ND S	(0.0008)		0.010 MCL
MJ-210	8010	NS	10/11/93	10/19/93	GCPEA1310181246	1,1-Dichloroethene	0.10 P	(0.0501)	G	6.0 MCL
						Carbon Tetrachloride	4.0	(0.0444)		0.50 MCL

TABLE 3 (Continued)

Well	Method	Field Analysis	Date Sampled	Date Analyzed	Batch ID	Analyte	Result	Reporting Limit	Qualified Results	Action Level
MW-210	8010	NS	10/11/93	10/19/93	GCPEA1310181246	Chloroform Trichloroethene	0.38 1.2	(0.0512) (0.0387)		100 MCL 5.0 MCL
MW-210	8020	NS	10/11/93	10/19/93	GCPEA2310181246	No Analytes Detected	ND			
MW-211	8010	NS	10/11/93	10/19/93	GCPEA1310181246	Trichloroethene	0.63	(0.0387)		5.0 MCL
MW-211	8020	NS	10/11/93	10/19/93	GCPEA2310181246	No Analytes Detected	ND			
MWQ9315	8020	FD	10/11/93	10/15/93	GCTEX2310141252	No Analytes Detected	ND			
MW-211	6010	NS	10/11/93	10/15/93	ENJA61310151001	Aluminum Barium Calcium Chromium Copper Iron Magnesium Manganese Nickel Potassium Sodium Vanadium Zinc	0.18 0.014 5.2 0.20 0.0060 0.95 B 1.9 0.090 B 0.16 40 38 B 0.013 0.034	(0.0284) (0.0005) (0.148) (0.0025) (0.0038) (0.006) (0.0228) (0.0004) (0.0099) (0.37) (0.0397) (0.0024) (0.0015)	1.0 MCL 1.0 MCL   <	

TABLE 3 (Continued)

Well	Method	Field Analysis	Date Sampled	Date Analyzed	Batch ID	Analyte	Result	Reporting Limit	Qualified Results	Action Level
MW-214	6010	NS	10/13/93	10/18/93	ENJAE1310181927	Copper Iron Magnesium Manganese Molybdenum Nickel Potassium Sodium Vanadium Zinc	0.042 8.0 16 0.13 0.025 0.44 0.92 19 0.042 0.027	(0.0038) (0.006) (0.0228) (0.0004) (0.0046) (0.0099) (0.37) (0.0397) (0.0024) (0.0015)		
MW-214	7060	NS	10/13/93	10/25/93	AAZ4_310251700	Arsenic	0.0061	(0.001)		0.050 MCL
MW-214	7421	NS	10/13/93	10/18/93	AAZ1_310181800	Lead	0.029 SB	(0.0008)	R	0.050 MCL
MW-214	7470	NS	10/13/93	10/19/93	AAZ3_310191930	Mercury	0.00010	(0.0001)		0.0020 MCL
MW-214	7740	NS	10/13/93	10/24/93	AAZ3_310240900	Selenium Selenium	ND ND	(0.0017) (0.0017)		0.010 MCL 0.010 MCL
MW-215	8010	NS	10/13/93	10/20/93	GCTEX1310191403	No Analytes Detected	ND			
EB-215	8010	EB	10/13/93	10/16/93	GCPEA1310151440	Methylene Chloride	0.21 B	(0.043)		
MW-215	8020	NS	10/13/93	10/20/93	GCTEX2310191403	No Analytes Detected	ND			
EB-215	8020	EB	10/13/93	10/16/93	GCPEA2310151440	No Analytes Detected	ND			
MW-215	6010	NS	10/13/93	10/18/93	ENJAE1310181927	Barium Calcium Chromium Iron Magnesium Manganese Nickel Potassium Sodium Vanadium Zinc	0.061 14 0.066 0.66 11 0.059 0.084 3.2 16 0.032 0.027	(0.0005) (0.148) (0.0025) (0.006) (0.0228) (0.0004) (0.0099) (0.37) (0.0397) (0.0024) (0.0015)		1.0 MCL 0.050 MCL
MW-215	7060	NS	10/13/93	10/25/93	AAZ4_310251700	Arsenic	0.0039	(0.001)		0.050 MCL
MW-215	7421	NS	10/13/93	10/18/93	AAZ1_310181800	Lead	0.012 SB	(0.0008)		0.050 MCL
MW-215	7470	NS	10/13/93	10/19/93	AAZ3_310191930	Mercury	ND	(0.0001)		0.0020 MCL
MW-215	7740	NS	10/13/93	10/24/93	AAZ3_310240900	Selenium	ND	(0.0008)		0.010 MCL

TABLE 3 (Continued)

Well	Method	Field Analysis	Date Sampled	Date Analyzed	Batch ID	Analyte	Result	Reporting Limit	Qualified Results	Action Level
MU-218	8010	MS	10/13/93	10/19/93	GCPEA1310191403	Trichloroethene cis-1,2-Dichloroethene	0.82 H 0.46 H	(0.0732) (0.0366)		5.0 MCL 6.0 MCL
MU-218	8020	MS	10/13/93	10/19/93	GCPEA2310191403	No Analytes Detected	ND			
MU-222	8010	MS	10/12/93	10/16/93	GCPEA1310151440	Carbon Tetrachloride Chloroform Trichloroethene cis-1,2-Dichloroethene	2.0 H 1.8 H 17 HB 2.8 H	(0.0444) (0.0512) (0.0387) (0.0362)		0.50 MCL 1.00 MCL 5.0 MCL 6.0 MCL
MU-2317	8010	FD	10/12/93	10/19/93	GCPEA1310181246	Carbon Tetrachloride Chloroform Methylene Chloride Trichloroethene cis-1,2-Dichloroethene	1.8 1.6 0.14 B 13 2.3	(0.0444) (0.0512) (0.043) (0.0387) (0.0362)		0.50 MCL 1.00 MCL 5.0 MCL 6.0 MCL
MU-222	8020	MS	10/12/93	10/16/93	GCPEA2310151440	No Analytes Detected	ND			
MU-226	8010	MS	10/05/93	10/07/93	GCPEA1310061504	Trichloroethene	0.38 H	(0.0387)		5.0 MCL
MU-226	8020	MS	10/05/93	10/08/93	GCJAV2310081013	No Analytes Detected	ND			
MU-228	8010	MS	10/12/93	10/16/93	GCPEA1310151440	1,1-Dichloroethane 1,1-Dichloroethene 1,2-Dichloroethane Chloroform Methylene Chloride Trichloroethene cis-1,2-Dichloroethene	0.19 H 3.4 H 36 H 3.7 H 1.3 HB 4.3 HB 0.16 H	(0.0729) (0.0568) (0.0286) (0.0512) (0.043) (0.0387) (0.0362)	R	5.0 MCL 6.0 MCL 0.50 MCL 1.00 MCL 5.0 MCL 6.0 MCL
MU-228	8020	MS	10/12/93	10/16/93	GCPEA2310151440	No Analytes Detected	ND			
MU-270	8010	MS	10/07/93	10/13/93	GCPEA1310122302	Tetrachloroethene Trichloroethene cis-1,2-Dichloroethene	172 1390 38	(1.9) (1.94) (1.81)		5.0 MCL 5.0 MCL 6.0 MCL
MU-270	8020	MS	10/07/93	10/11/93	GCPEA2310110950	Benzene	0.79 H	(0.0098)		1.0 MCL
MU-270	6010	MS	10/07/93	10/12/93	ENJAJ61310121600	Aluminum Barium Calcium Chromium Cobalt Copper Iron Magnesium	0.11 0.024 B 19 0.66 0.0042 0.011 6.6 14	(0.0284) (0.0005) (0.148) (0.0025) (0.0034) (0.0038) (0.006) (0.0228)		1.0 MCL 1.0 MCL 0.050 MCL

TABLE 3 (Continued)

Well	Method	Field Analysis	Date Sampled	Date Analyzed	Batch ID	Analyte	Result	Reporting Limit	Qualified Results	Action Level
MW-270	6010	NS	10/07/93	10/12/93	EKJAG1310121600	Manganese Nickel Potassium Sodium Vanadium Zinc	0.061 0.27 1.2 17 B 0.032 0.017	(0.0004) (0.0099) (0.37) (0.0397) (0.0024) (0.0015)		
MW-270	7060	NS	10/07/93	10/20/93	AAZ4_310201415	Arsenic	0.0051	(0.001)		0.050 MCL
MW-270	7421	NS	10/07/93	10/17/93	AAZ2_310171000	Lead	0.0020	(0.0011)		0.050 MCL
MW-270	7470	NS	10/07/93	10/12/93	AAZ3_310122100	Mercury	0.00010 B	(0.0001)	R	0.0020 MCL
MW-270	7740	NS	10/07/93	10/20/93	AAZ3_310201235	Selenium	0.0032 S	(0.0008)		0.010 MCL
MW-271	8010	NS	10/07/93	10/13/93	GCPEA1310122302	1,2-Dichloroethane Carbon Tetrachloride Tetrachloroethene Trichloroethene	3.1 0.76 0.56 P 43	(0.143) (0.222) (0.38) (0.194)		0.50 MCL 0.50 MCL 5.0 MCL 5.0 MCL
EB-271	8010	EB	10/07/93	10/11/93	GCPEA1310110950	Methylene Chloride	0.34 B	(0.043)		
MW-271	8020	NS	10/07/93	10/11/93	GCPEA2310110950	No Analytes Detected	ND			
EB-271	8020	EB	10/07/93	10/11/93	GCPEA2310110950	No Analytes Detected	ND			
MW-271	6010	NS	10/07/93	10/12/93	EKJAG1310121600	Aluminum Barium Calcium Chromium Copper Iron Magnesium Manganese Nickel Potassium Sodium Vanadium Zinc	0.43 0.060 B 43 0.062 0.0041 0.82 29 0.037 0.023 1.6 26 B 0.025 0.043	(0.0284) (0.0005) (0.148) (0.0025) (0.0036) (0.006) (0.0228) (0.0004) (0.0099) (0.37) (0.0397) (0.0024) (0.0015)		1.0 MCL 1.0 MCL 0.050 MCL
MW-271	7060	NS	10/07/93	10/20/93	AAZ4_310201415	Arsenic	0.0032	(0.001)		0.050 MCL
MW-271	7421	NS	10/07/93	10/17/93	AAZ2_310171000	Lead	0.0026	(0.0011)		0.050 MCL
MW-271	7470	NS	10/07/93	10/12/93	AAZ3_310122100	Mercury	0.00010 B	(0.0001)	R	0.0020 MCL
MW-271	7740	NS	10/07/93	10/20/93	AAZ3_310201235	Selenium	0.0054 S	(0.0008)		0.010 MCL

TABLE 3 (Continued)

Well	Method	Field Analysis	Date Sampled	Date Analyzed	Batch ID	Analyte	Result	Reporting Limit	Qualified Results	Action Level
MJ-272	8010	NS	10/07/93	10/13/93	GCPEA1310122302	Tetrachloroethene Trichloroethene	0.76 148	(0.19) (0.194)		5.0 MCL 5.0 MCL
MJ-272	8020	NS	10/07/93	10/11/93	GCPEA2310110950	No Analytes Detected	ND			
MJ-272	6010	NS	10/07/93	10/12/93	EMJAE1310121600	Aluminum Barium Calcium Chromium Copper Iron Magnesium Manganese Nickel Potassium Sodium Vanadium Zinc	0.20 0.012 B 18 0.086 0.0071 0.57 12 0.026 0.031 1.3 17 B 0.022 0.025	(0.0284) (0.0005) (0.148) (0.0025) (0.0038) (0.006) (0.0228) (0.0004) (0.0099) (0.37) (0.0397) (0.0024) (0.0015)	PF PF PF	1.0 MCL 1.0 MCL 0.050 MCL
MAQ9318	6010	FD	10/07/93	10/12/93	EMJAE1310121600	Aluminum Barium Calcium Chromium Copper Iron Magnesium Manganese Nickel Potassium Sodium Vanadium Zinc	0.057 0.012 B 17 0.038 0.0063 0.32 12 0.018 0.028 1.5 16 B 0.022 0.026	(0.0284) (0.0005) (0.148) (0.0025) (0.0038) (0.006) (0.0228) (0.0004) (0.0099) (0.37) (0.0397) (0.0024) (0.0015)		1.0 MCL 1.0 MCL 0.050 MCL
MJ-272	7060	NS	10/07/93	10/20/93	AAZ4_310201415	Arsenic	0.0050	(0.001)	PF	0.050 MCL
MAQ9318	7060	FD	10/07/93	10/20/93	AAZ4_310200922	Arsenic	0.0029	(0.001)		0.050 MCL
MJ-272	7421	NS	10/07/93	10/17/93	AAZ2_310171000	Lead	0.025	(0.0011)	PF	0.050 MCL
MAQ9318	7421	FD	10/07/93	10/17/93	AAZ2_310171000	Lead	0.011	(0.0011)		0.050 MCL
MJ-272	7470	NS	10/07/93	10/12/93	AAZ3_310122100	Mercury	0.00010 B	(0.0001)	R	0.0020 MCL
MAQ9318	7470	FD	10/07/93	10/12/93	AAZ3_310122100	Mercury	ND	(0.0001)		0.0020 MCL
MJ-272	7740	NS	10/07/93	10/20/93	AAZ3_310201235	Selenium	0.0036 S	(0.0008)	PF	0.010 MCL

TABLE 3 (Continued)

Well	Method	Field Analysis	Date Sampled	Date Analyzed	Batch ID	Analyte	Result	Reporting Limit	Qualified Results	Action Level
MAQ0318	7740	FD	10/07/93	10/20/93	AAZ3_310201235	Selenium	0.0015 S	(0.0008)		0.010 MCL
MAQ-202	8010	MS	10/19/93	10/28/93	GCPEA1310272245	Carbon Tetrachloride	0.70	(0.0444)		0.50 MCL
						Chloroform	1.3	(0.0512)	PF	100 PMCL
						Methylene Chloride	0.11 PB	(0.043)	PF, R	
						Tetrachloroethene	0.27	(0.0381)	PF	5.0 MCL
						Trichloroethene	31	(0.0367)		5.0 MCL
MAQ0301	8010	FD	10/19/93	10/27/93	GCTEX1310261421	Carbon Tetrachloride	0.70	(0.0854)		0.50 MCL
						Chloroform	1.8	(0.0258)		100 PMCL
						Methylene Chloride	3.4 B	(0.0842)		
						Tetrachloroethene	0.38	(0.075)		5.0 MCL
						Trichloroethene	38	(0.0732)		5.0 MCL
MAQ-202	8020	MS	10/19/93	10/28/93	GCPEA2310272245	Toluene	0.095 BT	(0.033)	R	
MAQ-203	8010	MS	10/16/93	10/23/93	GCPEA1310221222	Bromodichloroethane	0.032 B	(0.015)	R	100 PMCL
						Carbon Tetrachloride	0.062	(0.0444)		0.50 MCL
						Trichloroethene	0.91 P	(0.112)	6	5.0 MCL
						cis-1,2-Dichloroethene	2.0	(0.0362)		6.0 MCL
MAQ-203	8020	MS	10/16/93	10/23/93	GCPEA2310221222	1,2-Dichlorobenzene	1.2 P	(0.136)	6	130 AL
						1,4-Dichlorobenzene	0.37	(0.0131)		5.0 MCL
						Ethylbenzene	0.21	(0.0199)		680 MCL
						Toluene	0.16	(0.033)		
						Total Xylenes	1.7	(0.0528)		1750 MCL
MAQ-204	8010	MS	10/16/93	10/28/93	GCPEA1310272245	1,2-Dichloroethane	0.29	(0.0286)		0.50 MCL
						2-Chloroethylvinylether	0.37	(0.0281)		
						Tetrachloroethene	0.33	(0.0381)		5.0 MCL
						Trichloroethene	2.9	(0.0367)		5.0 MCL
						cis-1,2-Dichloroethene	0.26	(0.0362)		6.0 MCL
MAQ-204	8020	MS	10/16/93	10/28/93	GCPEA2310272245	Toluene	0.049 B	(0.033)	R	
MAQ-205	8010	MS	10/19/93	10/28/93	GCPEA1310272245	Methylene Chloride	0.13 PB	(0.043)	R	5.0 MCL
						Trichloroethene	10	(0.0387)		
MAQ-205	8020	MS	10/19/93	10/28/93	GCPEA2310272245	Toluene	0.12 BT	(0.033)	R	
MAQ0302	8020	FD	10/19/93	10/27/93	GCTEX2310261421	No Analytes Detected	ND			
MAQ-206	8010	MS	10/19/93	10/28/93	GCPEA1310272245	1,1-Dichloroethane	24	(0.0729)		5.0 MCL
						1,1-Dichloroethene	0.99	(0.0568)		6.0 MCL
						1,2-Dichloroethane	1.3	(0.0286)		0.50 MCL

Well	Method	Field Analysis	Date Sampled	Date Analyzed	Batch ID	Analyte	Result	Reporting Limit	Qualified Results	Action Level
W-206	8010	MS	10/19/93	10/28/93	GCPEA1310272245	Chloroform Methylene Chloride Tetrachloroethene Trichloroethene cis-1,2-Dichloroethene	2.8 0.15 PB 1.8 24 25	(0.0512) (0.043) (0.0381) (0.0387) (0.0362)	R	100 MCL 5.0 MCL 5.0 MCL 6.0 MCL
W-206	8020	MS	10/19/93	10/28/93	GCPEA2310272245	Toluene	0.050 BT	(0.033)	R	5.0 MCL 5.0 MCL
W-207	8010	MS	10/19/93	10/29/93	6CTEX1310282359	Tetrachloroethene Trichloroethene	24 362	(1.88) (1.83)		
W-207	8020	MS	10/19/93	10/28/93	GCPEA2310272245	Toluene	0.076 BT	(0.033)	R	5.0 MCL 5.0 MCL 6.0 MCL
W-208	8010	MS	10/17/93	11/01/93	6CTEX1310311045	Tetrachloroethene Trichloroethene cis-1,2-Dichloroethene	23 287 15	(0.75) (0.732) (0.366)		
W-208	8020	MS	10/17/93	11/01/93	6CTEX2310311045	No Analytes Detected	ND			5.0 MCL 6.0 MCL
W-999	8010	MS	10/16/93	10/28/93	GCPEA1310272245	Trichloroethene cis-1,2-Dichloroethene	28100 544	{77.4} {72.4}		5.0 MCL 6.0 MCL
W-999	8020	MS	10/16/93	10/28/93	GCPEA2310272245	No Analytes Detected	ND		PF, R	1.0 MCL 1.0 MCL 0.010 MCL
W-999	8010	MS	10/16/93	10/21/93	ENJMS1310211300	Aluminum Barium Cadmium Calcium Chromium Cobalt Iron Magnesium Manganese Potassium Sodium Thallium Vanadium Zinc	0.068 B 0.17 0.0026 69 0.043 0.0047 0.44 49 0.014 B 1.5 30 B 0.020 0.020 0.0033 B	(0.0284) (0.0005) (0.0017) (0.148) (0.0025) (0.0034) (0.006) (0.0228) (0.0004) (0.37) (0.0397) (0.0172) (0.0024) (0.0015)	PF	0.050 MCL
W-0319	8010	FD	10/16/93	10/21/93	ENJMS1310211300	Aluminum Barium Cadmium Calcium Chromium Cobalt Iron	0.28 B 0.17 0.0032 68 0.12 0.0040 1.1	(0.0284) (0.0005) (0.0017) (0.148) (0.0025) (0.0034) (0.006)	R	1.0 MCL 1.0 MCL 0.010 MCL 0.050 MCL



TABLE 3 (Continued)

Well	Method	Field Analysis	Date Sampled	Date Analyzed	Batch ID	Analyte	Result	Reporting Limit	Qualified Results	Action Level
MAQ9319	6010	FD	10/16/93	10/21/93	EMJ461310211300	Magnesium Manganese Nickel Potassium Sodium Vanadium Zinc	48 0.024 B 0.022 1.4 30 B 0.022 0.0045 B	(0.0228) (0.0004) (0.0099) (0.37) (0.0397) (0.0024) (0.0015)		
MA-999	7060	MS	10/16/93	10/25/93	AAZ4_310251700	Arsenic	0.0029	(0.001)		0.050 MCL
MAQ9319	7060	FD	10/16/93	10/25/93	AAZ4_310251700	Arsenic	0.0032	(0.001)		0.050 MCL
MA-999	7421	MS	10/16/93	10/21/93	AAZ2_310211800	Lead	ND	(0.0011)	PF	0.050 MCL
MAQ9319	7421	FD	10/16/93	10/21/93	AAZ2_310211800	Lead	0.020	(0.0011)		0.050 MCL
MA-999	7470	MS	10/16/93	10/27/93	AAZ3_310261900	Mercury	ND	(0.0001)		0.0020 MCL
MAQ9319	7470	FD	10/16/93	10/27/93	AAZ3_310261900	Mercury	ND	(0.0001)		0.0020 MCL
MA-999	7740	MS	10/16/93	10/24/93	AAZ3_310240900	Selenium	ND	(0.0008)		0.010 MCL
MAQ9319	7740	FD	10/16/93	10/24/93	AAZ3_310240900	Selenium	ND	(0.0008)		0.010 MCL
MA-1004	8010	MS	10/19/93	10/27/93	GCTEX1310261421	No Analytes Detected	ND			
MA-1012	8010	MS	10/19/93	10/27/93	GCTEX1310261421	No Analytes Detected	ND			
AB-1012	8010	AB	10/19/93	10/27/93	GCTEX1310261421	No Analytes Detected	ND			
MA-1012	8020	MS	10/19/93	10/27/93	GCTEX2310261421	No Analytes Detected	ND			
AB-1012	8020	AB	10/19/93	10/27/93	GCTEX2310261421	No Analytes Detected	ND			
MA-1012	6010	MS	10/19/93	10/26/93	EMJ461310261200	Barium Calcium Chromium Iron Magnesium Potassium Sodium Vanadium Zinc	0.15 47 0.0037 B 0.0075 B 34 B 0.97 32 0.021 0.0049	(0.0005) (0.148) (0.0025) (0.006) (0.0228) (0.37) (0.0397) (0.0024) (0.0015)	R R	1.0 MCL 0.050 MCL
MA-1012	7060	MS	10/19/93	10/27/93	AAZ4_310271128	Arsenic	0.0017	(0.001)		0.050 MCL
MA-1012	7421	MS	10/19/93	10/27/93	AAZ2_310271400	Lead	0.0030 B	(0.0011)	R	0.050 MCL

TABLE 3 (Continued)

Well	Method	Field Analysis	Date Sampled	Date Analyzed	Batch ID	Analyte	Result	Reporting Limit	Qualified Results	Action Level
MA-1012	7470	MS	10/19/93	10/27/93	AAZ3_310261900	Mercury	ND	(0.0001)		0.0020 MCL
MA-1012	7740	MS	10/19/93	10/28/93	AAZ3_310281147	Selenium	0.0028 S	(0.0008)		0.010 MCL
MA-1015	8010	MS	10/20/93	10/27/93	GCJAY1310261953	No Analytes Detected	ND			
MA-1015	8020	MS	10/20/93	10/27/93	GCJAY2310261953	No Analytes Detected	ND			
MA-1019	8010	MS	10/22/93	11/02/93	GCPEA1311012012	1,1-Dichloroethane Trichloroethane cis-1,2-Dichloroethane	0.85 0.76 0.21	(0.0729) (0.0387) (0.0362)		5.0 MCL 5.0 MCL 6.0 MCL
MA-1023	8010	MS	10/16/93	10/28/93	GCPEA1310272245	No Analytes Detected	ND			
MA-1023	8020	MS	10/16/93	10/28/93	GCPEA2310272245	No Analytes Detected	ND			
MA-1024	6010	MS	10/16/93	10/21/93	ENJAG61310211300	Aluminum Barium Calcium Chromium Cobalt Iron Magnesium Manganese Nickel Potassium Sodium Vanadium	0.045 B 0.041 14 0.020 0.0048 0.073 11 0.016 B 0.011 1.7 13 B 0.029	(0.0284) (0.0005) (0.148) (0.0025) (0.0034) (0.006) (0.0228) (0.0004) (0.0099) (0.37) (0.0397) (0.0024)	R 1.0 MCL 1.0 MCL 0.050 MCL	
MA-1024	7060	MS	10/16/93	10/25/93	AAZ4_310251700	Arsenic	0.0035	(0.001)		0.050 MCL
MA-1024	7421	MS	10/16/93	10/21/93	AAZ2_310211800	Lead	ND	(0.0011)		0.050 MCL
MA-1024	7470	MS	10/16/93	10/27/93	AAZ3_310261900	Mercury	ND	(0.0001)		0.0020 MCL
MA-1024	7740	MS	10/16/93	10/24/93	AAZ3_310240900	Selenium	ND	(0.0008)		0.010 MCL
MA-1031	8010	MS	10/21/93	11/01/93	GCTEX1310311045	No Analytes Detected	ND			
MA-1031	6010	MS	10/21/93	10/26/93	ENJAG61310261200	Arsenic Barium Calcium Chromium Iron Magnesium Manganese	0.027 0.050 13 0.020 B 0.062 B 9.2 B 0.0036	(0.0225) (0.0005) (0.148) (0.0025) (0.006) (0.0228) (0.0004)	R 0.050 MCL 1.0 MCL 0.050 MCL	

TABLE 3 (Continued)

Well	Method	Field Analysis	Date Sampled	Date Analyzed	Batch ID	Analyte	Result	Reporting Limit	Qualified Results	Action Level
MA-1031	6010	NS	10/21/93	10/26/93	ENJ461310261200	Potassium Sodium Vanadium Zinc	1.2 17 0.037 0.041	(0.37) (0.0397) (0.0024) (0.0015)		
MA-1031	7060	NS	10/21/93	10/27/93	AAZ4_310271128	Arsenic	0.0025	(0.001)		0.050 MCL
MA-1031	7421	NS	10/21/93	10/27/93	AAZ2_310271400	Lead	0.0060 B	(0.0011)	R	0.050 MCL
MA-1031	7470	NS	10/21/93	10/27/93	AAZ3_310261900	Mercury	ND	(0.0001)		0.0020 MCL
MA-1031	7740	NS	10/21/93	10/27/93	AAZ3_310271408	Selenium	0.0011 S	(0.0008)		0.010 MCL
MA-1032	6010	NS	10/06/93	10/12/93	ENJ461310121600	Barium Calcium Chromium Iron Magnesium Manganese Nickel Potassium Sodium Vanadium Zinc	0.063 B 16 0.019 0.19 12 0.0024 0.14 1.3 18 B 0.033 0.0016	(0.0005) (0.148) (0.0025) (0.006) (0.0228) (0.0004) (0.0099) (0.37) (0.0397) (0.0024) (0.0015)		1.0 MCL 0.050 MCL
MA-1032	7060	NS	10/06/93	10/20/93	AAZ4_310200922	Arsenic	0.0039	(0.001)		0.050 MCL
MA-1032	7421	NS	10/06/93	10/17/93	AAZ2_310171000	Lead	0.0067	(0.0011)		0.050 MCL
MA-1032	7470	NS	10/06/93	10/12/93	AAZ3_310122100	Mercury	0.00010	(0.0001)		0.0020 MCL
MA-1032	7740	NS	10/06/93	10/20/93	AAZ3_310201235	Selenium	ND S	(0.0008)		0.010 MCL
MA-1044	8010	NS	10/20/93	10/27/93	GCJAY1310261953	Chloroform Trichloroethene cis-1,2-Dichloroethene	2.3 H 3.6 H 1.5 H	(0.0533) (0.103) (0.0413)		100 PMCL 5.0 MCL 6.0 MCL
MAQ9306	8010	FD	10/20/93	10/28/93	GCJAY1310280132	Chloroform Trichloroethene cis-1,2-Dichloroethene	2.3 3.9 1.6	(0.0533) (0.103) (0.0413)		100 PMCL 5.0 MCL 6.0 MCL
MA-1049	8010	NS	10/20/93	10/30/93	GCPEA1310291803	1,2-Dichloroethane Chloroform Methylene Chloride Trichloroethene cis-1,2-Dichloroethene	0.087 0.33 0.98 P 14 B 4.5	(0.0286) (0.0512) (0.22) (0.0387) (0.0362)	G	0.50 MCL 100 PMCL 5.0 MCL 6.0 MCL

TABLE 3 (Continued)

Well	Method	Field Analysis	Date Sampled	Date Analyzed	Batch ID	Analyte	Result	Reporting Limit	Qualified Results	Action Level
MAQ0320	8010	FD	10/20/93	10/30/93	6CPEA1310291803	1,2-Dichloroethane Chloroform Trichloroethene cis-1,2-Dichloroethene	0.090 P 0.30 14 B 4.5	(0.0206) (0.0512) (0.0387) (0.0382)		0.50 MCL 100 MCL 5.0 MCL 6.0 MCL
MA-1050	6010	NS	10/15/93	10/21/93	ENJA61310211300	Barium Cadmium Calcium Chromium Iron Magnesium Manganese Nickel Potassium Sodium Thallium Vanadium Zinc	0.035 0.0019 15 0.023 0.16 11 0.0087 B 0.44 1.5 14 B 0.026 0.016 0.015 B	(0.0005) (0.0017) (0.148) (0.0025) (0.006) (0.0228) (0.0004) (0.0099) (0.37) (0.0397) (0.0172) (0.0024) (0.0015)	PF	1.0 MCL 0.010 MCL 0.050 MCL
MAQ0321	6010	FD	10/15/93	10/21/93	ENJA61310211300	Aluminum Barium Cadmium Calcium Chromium Cobalt Iron Magnesium Manganese Nickel Potassium Sodium Vanadium Zinc	0.042 B 0.037 0.0021 15 0.035 0.0038 0.30 11 0.012 B 0.44 2.0 14 B 0.022 0.012 B	(0.0204) (0.0005) (0.0017) (0.148) (0.0025) (0.0034) (0.006) (0.0228) (0.0004) (0.0099) (0.37) (0.0397) (0.0024) (0.0015)		1.0 MCL 1.0 MCL 0.010 MCL 0.050 MCL
MA-1050	7060	NS	10/15/93	10/25/93	AAZ4_310251700	Arsenic	0.0025	(0.001)		0.050 MCL
MAQ0321	7060	FD	10/15/93	10/25/93	AAZ4_310251700	Arsenic	0.0028	(0.001)		0.050 MCL
MA-1050	7421	NS	10/15/93	10/21/93	AAZ2_310211800	Lead	0.0021	(0.0011)	PF	0.050 MCL
MAQ0321	7421	FD	10/15/93	10/21/93	AAZ2_310211800	Lead	0.0046	(0.0011)		0.050 MCL
MA-1050	7470	NS	10/15/93	10/19/93	AAZ3_310191930	Mercury	ND	(0.0001)		0.0020 MCL
MAQ0321	7470	FD	10/15/93	10/19/93	AAZ3_310191930	Mercury	ND	(0.0001)		0.0020 MCL

TABLE 3 (Continued)

Well	Method	Field Analysis	Date Sampled	Date Analyzed	Batch ID	Analyte	Result	Reporting Limit	Qualified Results	Action Level
MW-1050	7740	NS	10/15/93	10/24/93	AAZ3_310240900	Selenium	ND	(0.0008)		0.010 MCL
MAQ9321	7740	FD	10/15/93	10/24/93	AAZ3_310240900	Selenium	ND	(0.0008)		0.010 MCL
MW-1051	8010	NS	10/15/93	10/20/93	GCTEX1310191403	Trichloroethene cis-1,2-Dichloroethene	5.1 H 1.6 H	(0.0732) (0.0366)		5.0 MCL 6.0 MCL
MW-1053	8010	NS	10/05/93	10/07/93	GCPEA1310061504	Methylene Chloride	0.13 B	(0.043)	R	
MW-1054	8010	NS	10/08/93	10/14/93	GCTEX1310131032	Trichloroethene	8.4 H	(0.0732)		5.0 MCL
MAQ9322	8010	FD	10/08/93	10/13/93	GCTEX1310131032	Trichloroethene	8.4	(0.0732)		5.0 MCL
MW-1057	8010	NS	10/20/93	10/30/93	GCPEA1310291803	Methylene Chloride Trichloroethene	0.34 HB ND	(0.043)	R, PF PF	
MAQ9399	8010	FD	10/20/93	11/01/93	GCTEX1311011732	Methylene Chloride Trichloroethene	1.3 P 0.83	(0.22) (0.0732)	G	5.0 MCL
MW-1058	8010	NS	10/20/93	10/30/93	GCPEA1310291803	1,2-Dichloroethane Tetrachloroethene Trichloroethene cis-1,2-Dichloroethene	0.13 0.36 27 B 0.18	(0.0286) (0.0381) (0.0387) (0.0362)	PL	0.50 MCL 5.0 MCL 5.0 MCL 6.0 MCL
MAQ9398	8010	FD	10/20/93	10/30/93	GCPEA1310291803	Methylene Chloride Tetrachloroethene Trichloroethene cis-1,2-Dichloroethene	0.30 P 0.34 29 B 0.20	(0.22) (0.0381) (0.0387) (0.0362)	G	5.0 MCL 5.0 MCL 5.0 MCL 6.0 MCL
MW-1058	8020	NS	10/20/93	10/30/93	GCPEA2310291803	No Analytes Detected	ND			
MW-1058	6010	NS	10/20/93	10/26/93	ENJAM61310261200	Aluminum Barium Beryllium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Molybdenum Nickel Potassium Sodium Vanadium Zinc	0.38 0.11 0.00060 B 30 3.5 B 0.013 0.088 24 B 0.033 B 20 B 0.14 0.033 0.27 1.2 17 0.058 0.020	(0.0284) (0.0005) (0.0006) (0.148) (0.0025) (0.0034) (0.0038) (0.006) (0.027) (0.0228) (0.0004) (0.0046) (0.0099) (0.37) (0.0397) (0.0024) (0.0015)	R	1.0 MCL 1.0 MCL   0.050 MCL   0.050 MCL

TABLE 3 (Continued)

Well	Method	Field Analysis	Date Sampled	Date Analyzed	Batch ID	Analyte	Result	Reporting Limit	Qualified Results	Action Level
MJ-1058	7060	NS	10/20/93	10/27/93	AAZ4_310271128	Arsenic	0.010	(0.001)		0.050 MCL
MJ-1058	7421	NS	10/20/93	10/27/93	AAZ2_310271400	Lead	ND	(0.0011)		0.050 MCL
MJ-1058	7470	NS	10/20/93	10/27/93	AAZ3_310261900	Mercury	ND	(0.0001)		0.0020 MCL
MJ-1058	7740	NS	10/20/93	10/27/93	AAZ3_310271408	Selenium	ND S	(0.0008)		0.010 MCL
MJ-1060	8010	NS	10/14/93	10/21/93	GCPEA1310201812	No Analytes Detected	ND			
MJ-1061	8010	NS	10/13/93	10/16/93	GCPEA1310151440	Methylene Chloride Tetrachloroethene Trichloroethene	0.22 B 0.040 0.28 B	(0.043) (0.0381) (0.0387)	R	5.0 MCL 5.0 MCL
EB-1061	8010	EB	10/13/93	10/16/93	GCPEA1310151440	No Analytes Detected	ND			
MJ-1061	8020	NS	10/13/93	10/16/93	GCPEA2310151440	No Analytes Detected	ND			
EB-1061	8020	EB	10/13/93	10/16/93	GCPEA2310151440	No Analytes Detected	ND			
MJ-1063	6010	NS	10/13/93	10/18/93	ENJAG1310181927	Barium Calcium Chromium Iron Magnesium Manganese Nickel Potassium Sodium Thallium Vanadium Zinc	0.044 13 0.14 3.2 9.8 0.040 0.21 3.5 15 0.021 0.022 0.017	(0.0005) (0.148) (0.0025) (0.006) (0.0228) (0.0004) (0.0099) (0.37) (0.0397) (0.0172) (0.0024) (0.0015)		1.0 MCL 0.050 MCL
MJ-1063	7060	NS	10/13/93	10/25/93	AAZ4_310251700	Arsenic	0.0022	(0.001)		0.050 MCL
MJ-1063	7421	NS	10/13/93	10/18/93	AAZ1_310181800	Lead	0.026 SB	(0.0008)	R	0.050 MCL
MJ-1063	7470	NS	10/13/93	10/19/93	AAZ3_310191930	Mercury	ND	(0.0001)		0.0020 MCL
MJ-1063	7740	NS	10/13/93	10/24/93	AAZ3_310240900	Selenium	ND	(0.0017)		0.010 MCL
MJ-1065	6010	NS	10/05/93	10/12/93	ENJAG1310121600	Aluminum Barium Cadmium Calcium Chromium	0.11 0.053 B 0.0019 18 1.7	(0.0284) (0.0005) (0.0017) (0.148) (0.0025)	PF	1.0 MCL 1.0 MCL 0.010 MCL 0.050 MCL

TABLE 3 (Continued)

Well	Method	Field Analysis	Date Sampled	Date Analyzed	Batch ID	Analyte	Result	Reporting Limit	Qualified Results	Action Level
MW-1065	6010	NS	10/05/93	10/12/93	ENJAG1310121600	Cobalt	0.0058	(0.0034)		
						Copper	0.043	(0.0038)		
						Iron	8.7	(0.006)		
						Lead	0.044	(0.027)		0.050 MCL
						Magnesium	12	(0.0228)		
						Manganese	0.083	(0.0004)	PF	
						Molybdenum	0.017	(0.0046)		
						Nickel	0.42	(0.0099)		
						Potassium	3.2	(0.37)		
						Sodium	17.8	(0.0397)		
						Vanadium	0.037	(0.0024)		
						Zinc	0.027	(0.0015)		
MAQ9323	6010	FD	10/05/93	10/12/93	ENJAG1310121600	Aluminum	0.27	(0.0284)		1.0 MCL
						Barium	0.051	(0.0005)		1.0 MCL
						Cadmium	0.0022	(0.0017)		0.010 MCL
						Calcium	18	(0.148)		
						Chromium	1.1	(0.0025)		0.050 MCL
						Cobalt	0.0043	(0.0034)		
						Copper	0.051	(0.0038)		
						Iron	7.0	(0.006)		
						Lead	0.036	(0.027)		0.050 MCL
						Magnesium	12	(0.0228)		
						Manganese	0.072	(0.0004)		
						Molybdenum	0.0089	(0.0046)		
						Nickel	0.40	(0.0099)		
						Potassium	3.3	(0.37)		
						Sodium	16.8	(0.0397)		
						Vanadium	0.033	(0.0024)		
						Zinc	0.029	(0.0015)		
MW-1065	7060	NS	10/05/93	10/20/93	AAZ4_310200922	Arsenic	0.0043	(0.001)		0.050 MCL
MAQ9323	7060	FD	10/05/93	10/20/93	AAZ4_310200922	Arsenic	0.0030	(0.001)		0.050 MCL
MW-1065	7421	NS	10/05/93	10/17/93	AAZ2_310171000	Lead	0.011	(0.0011)	PF	0.050 MCL
MAQ9323	7421	FD	10/05/93	10/17/93	AAZ2_310171000	Lead	0.029	(0.0011)		0.050 MCL
MW-1065	7470	NS	10/05/93	10/12/93	AAZ3_310122100	Mercury	0.00010	(0.0001)	PF	0.0020 MCL
MAQ9323	7470	FD	10/05/93	10/12/93	AAZ3_310122100	Mercury	0.00010	(0.0001)		0.0020 MCL
MW-1065	7740	NS	10/05/93	10/20/93	AAZ3_310201235	Selenium	ND S	(0.0008)		0.010 MCL
MAQ9323	7740	FD	10/05/93	10/20/93	AAZ3_310201235	Selenium	ND S	(0.0008)		0.010 MCL

TABLE 3 (Continued)

Well	Method	Field Analysis	Date Sampled	Date Analyzed	Batch ID	Analyte	Result	Reporting Limit	Qualified Results	Action Level
NA-1067	8010	MS	10/20/93	11/02/93	6CQUE1311011231	Carbon Tetrachloride Methylene Chloride Tetrachloroethene Trichloroethene	1.2 C 3.5 P 0.48 P 23 C	(0.107) (0.22) (0.101) (0.112)	6 6 6 6	0.50 MCL 5.0 MCL 5.0 MCL
NA-1069	8010	MS	10/15/93	10/20/93	6CTEX1310191403	No Analytes Detected	ND			
EB-1069	8010	EB	10/15/93	10/20/93	6CTEX1310191403	No Analytes Detected	ND			
QA-654	8010	MS	11/05/93	11/08/93	6CPEA1311081515	Methylene Chloride	0.19 B	(0.043)		
QA-654	8020	MS	11/05/93	11/08/93	6CPEA2311081515	No Analytes Detected	ND			
QA-654	6010	MS	11/05/93	11/12/93	ENJAG1311121030	Barium Cadmium Calcium Chromium Copper Iron Magnesium Manganese Nickel Potassium Sodium Vanadium Zinc	0.052 B 0.0026 14 0.016 B 0.0075 0.018 10 B 0.0010 0.013 2.2 B 14 B 0.028 B 0.037	(0.0005) (0.0017) (0.148) (0.0025) (0.0038) (0.006) (0.0228) (0.0004) (0.0099) (0.37) (0.0397) (0.0024) (0.0015)		1.0 MCL 0.010 MCL 0.050 MCL
QA-654	7060	MS	11/05/93	11/18/93	AAZ4_311180856	Arsenic	0.0019	(0.001)		0.050 MCL
QA-654	7421	MS	11/05/93	11/17/93	AAZ2_311170900	Lead	0.0058 B	(0.0011)		0.050 MCL
QA-654	7470	MS	11/05/93	11/13/93	AAZ4_311131900	Mercury	0.00010	(0)		0.0020 MCL
QA-654	7740	MS	11/05/93	11/17/93	AAZ3_311171700	Selenium	0.0029 S	(0.0008)		0.010 MCL
QA-994	8010	MS	11/05/93	11/08/93	6CPEA1311081515	No Analytes Detected	ND			
QA-994	8020	MS	11/05/93	11/08/93	6CPEA2311081515	No Analytes Detected	ND			
QA-994	6010	MS	11/05/93	11/12/93	ENJAG1311121030	Barium Calcium Chromium Copper Iron Magnesium Potassium Silver	0.048 B 13 0.016 B 0.0046 0.021 8.9 B 2.0 B 0.0050 B	(0.0005) (0.148) (0.0025) (0.0038) (0.006) (0.0228) (0.37) (0.0049)		1.0 MCL 0.050 MCL 0.050 MCL



TABLE 3 (Continued)

Well	Method	Field Analysis	Date Sampled	Date Analyzed	Batch ID	Analyte	Result	Reporting Limit	Qualified Results	Action Level
04-994	6010	NS	11/05/93	11/12/93	ENJA61311121030	Sodium Thallium Vanadium Zinc	13 B 0.019 0.032 B 0.069	(0.0397) (0.0172) (0.0024) (0.0015)		
04-994	7060	NS	11/05/93	11/18/93	AAZ4_311180856	Arsenic	0.0037	(0.001)		0.050 MCL
04-994	7421	NS	11/05/93	11/17/93	AAZ2_311170900	Lead	0.0042 B	(0.0011)		0.050 MCL
04-994	7470	NS	11/05/93	11/13/93	AAZ4_311131900	Mercury	ND	(0)		0.0020 MCL
04-994	7740	NS	11/05/93	11/17/93	AAZ3_311171700	Selenium	0.0014 S	(0.0008)		0.010 MCL
04-996	8010	NS	11/05/93	11/09/93	GCPEA1311081515	Methylene Chloride	0.18 HB	(0.043)		
04-996	8020	NS	11/05/93	11/09/93	GCPEA2311081515	No Analytes Detected	ND			
04-996	6010	NS	11/05/93	11/12/93	ENJA61311121030	Barium Cadmium Calcium Chromium Copper Iron Magnesium Manganese Nickel Potassium Sodium Thallium Vanadium Zinc	0.048 B 0.0024 12 0.022 B 0.0075 0.24 8.4 B 0.0014 0.020 2.0 B 14 B 0.022 0.028 B 0.28	(0.0005) (0.0017) (0.148) (0.0025) (0.0038) (0.006) (0.0228) (0.0004) (0.0099) (0.37) (0.0397) (0.0172) (0.0024) (0.0015)		1.0 MCL 0.010 MCL 0.050 MCL
04-996	7060	NS	11/05/93	11/18/93	AAZ4_311180856	Arsenic	0.0044	(0.001)		0.050 MCL
04-996	7421	NS	11/05/93	11/17/93	AAZ2_311170900	Lead	0.0099 B	(0.0011)		0.050 MCL
04-996	7470	NS	11/05/93	11/13/93	AAZ4_311131900	Mercury	ND	(0)		0.0020 MCL
04-996	7740	NS	11/05/93	11/17/93	AAZ3_311171700	Selenium	ND	(0.0008)		0.010 MCL 0.010 MCL
TB-1	8010	TB	10/20/93	10/28/93	GCJAY1310280132	No Analytes Detected	ND			
TB-2	8010	TB	10/20/93	11/01/93	GCTEX1310311045	No Analytes Detected	ND			
TB-3	8010	TB	10/21/93	11/02/93	GCTEX1311011732	No Analytes Detected	ND			

TABLE 3 (Continued)

Well	Method	Field Analysis	Date Sampled	Date Analyzed	Batch ID	Analyte	Result	Reporting Limit	Qualified Results	Action Level
7B-4	8010	7B	10/21/93	11/01/93	6CTEX1310311045	No Analytes Detected	ND			
7B-5	8010	7B	10/22/93	11/02/93	6CPEA1311012012	No Analytes Detected	ND			
7B-1	8020	7B	10/20/93	10/28/93	6CJAY2310280132	No Analytes Detected	ND			
7B-2	8020	7B	10/20/93	11/01/93	6CTEX2310311045	No Analytes Detected	ND			
7B-3	8020	7B	10/21/93	11/01/93	6CTEX2310311045	No Analytes Detected	ND			
7B-4	8020	7B	10/21/93	11/01/93	6CTEX2310311045	No Analytes Detected	ND			

TABLE 3 (Continued)

FOOTNOTES AND ABBREVIATIONS

DATAFLAGS:

- B = Analyte is found in the associated blank but the sample results are not corrected for the amount in the blank.
- C = Confirmed on second column or by GC/MS.
- H = Previously confirmed on second column or by GC/MS.
- ND = Not detected at specified detection limit.
- P = Results from primary and secondary GC columns differ by greater than a factor of three due to coelution or interference.
- S = Analyte concentration obtained using Method of Standard Addition (MSA).
- T = Second column confirmational analysis not performed.

QUALIFIED RESULTS:

- G = Results from primary and secondary columns differ by greater than a factor of three due to coelution or interference.
- H = Qualified as estimated due to matrix spike or surrogate recoveries outside the control limits.
- O = Detected in blank other than reagent blank.
- PF = Qualified as estimated due to high total variability as measured by field duplicates.
- PL = Qualified as estimated due to high total variability as measured by laboratory duplicates.
- R = Detected in the reagent blank.

UNITS:

ug/L = micrograms per liter.  
 mg/L = milligrams per liter.  
 METHOD 8010, 8020 = ug/L  
 METHODS 6010, 7060, 7470, 7740, 7421, 7740 = mg/L

WELL IDENTIFICATION:

- EC = Extraction well composite.  
 (EC-1 is a composite of EV-73, EV-83, EV-84, EV-85, EV-86, and EV-87)
- EV = Extraction well.
- EW = Monitoring well.
- DW = Observation well.
- EB = Equipment blank.
- AB = Ambient blank.
- HAQ93XX = Field duplicate samples.

NOTES:

- AL = Cal/EPA Dept. of Toxic Substances Control Action Level.
- GC = Gas Chromatography.
- GC/MS = Gas Chromatography/Mass Spectrometry.
- MCL = Cal/EPA Dept. of Toxic Substances Control Maximum Contaminant Level.
- PMCL = U.S. Environmental Protection Agency Primary Maximum Contaminant Level.

TABLE 4 WELLS CONTAINING ANALYTES AT CONCENTRATIONS EQUAL TO OR EXCEEDING STATE AND FEDERAL DRINKING WATER STANDARDS, GROUNDWATER SAMPLING AND ANALYSIS PROGRAM, OCTOBER THROUGH DECEMBER 1993, MCLELLAN AIR FORCE BASE

Well Number	Date Sampled	Sector	Method	Analyte Detected	Field		Concentration	Contaminant Or Action Level	Qualified Results
					Duplicate Analysis	Lab			
EC-1	06-Oct-93	D	8010	1,1-Dichloroethene		RAS	70	5.0 MCL	
				1,1-Dichloroethene		RAS	1520	6.0 MCL	
				1,2-Dichloroethene		RAS	16	0.50 MCL	
				Trichloroethene		RAS	436	5.0 MCL	
				Vinyl Chloride		RAS	98	0.50 MCL	
EV-137	04-Oct-93	C	8010	cis-1,2-Dichloroethene		RAS	55	6.0 MCL	
				Trichloroethene		RAS	66 H	5.0 MCL	
				cis-1,2-Dichloroethene		RAS	6.3 H	6.0 MCL	
				Trichloroethene		RAS	75	5.0 MCL	
				cis-1,2-Dichloroethene	FD	RAS	17	6.0 MCL	
EV-140	04-Oct-93	C	8010	Trichloroethene		RAS	85	5.0 MCL	
				cis-1,2-Dichloroethene	FD	RAS	19	6.0 MCL	
				Trichloroethene		RAS	67 H	5.0 MCL	
				cis-1,2-Dichloroethene		RAS	12 H	6.0 MCL	
				Trichloroethene		RAS	371	5.0 MCL	
EV-141	04-Oct-93	C	8010	Trichloroethene		RAS	423 H	5.0 MCL	
				cis-1,2-Dichloroethene		RAS	2330 H	5.0 MCL	
				Trichloroethene		RAS	0.058	0.010 MCL	
				Trichloroethene		RAS	72	5.0 MCL	
				Tetrachloroethene		RAS	557	5.0 MCL	
EV-234	12-Oct-93	B	8010	Trichloroethene		RAS	134 H	5.0 MCL	
				Tetrachloroethene		RAS	410 H	5.0 MCL	
				Trichloroethene		RAS	0.26 B	0.050 MCL	
				Chromium		RAS	0.072 B	0.050 MCL	
				Lead		RAS	0.058 B	0.050 MCL	
MW-415	04-Oct-93	B	8010	Tetrachloroethene		RAS	6.1	5.0 MCL	
				Trichloroethene		RAS	54	5.0 MCL	
				Trichloroethene	FD	RAS	6.7	5.0 MCL	
				Trichloroethene	FD	RAS	59	5.0 MCL	
				Aluminum		RAS	12 B	1.0 MCL	
MW-445	17-Oct-93	C	6010	Arsenic		RAS	1.6	0.050 MCL	
				Barium		RAS	1.2	1.0 MCL	
				Cadmium		RAS	0.13	0.010 MCL	
				Chromium		RAS	0.82	0.050 MCL	
				Lead		RAS	0.41	0.050 MCL	
MW-85	14-Oct-93	B	8010	Selenium		RAS	0.31	0.010 MCL	
				Aluminum		RAS	12 B	1.0 MCL	
				Arsenic		RAS	1.6	0.050 MCL	
				Barium		RAS	1.2	1.0 MCL	
				Cadmium		RAS	0.13	0.010 MCL	
MW-445	17-Oct-93	C	6010	Chromium		RAS	0.26 B	0.050 MCL	
				Lead		RAS	0.072 B	0.050 MCL	
				Lead		RAS	0.058 B	0.050 MCL	
				Tetrachloroethene		RAS	6.1	5.0 MCL	
				Trichloroethene		RAS	54	5.0 MCL	
MW-85	14-Oct-93	B	8010	Trichloroethene		RAS	6.7	5.0 MCL	
				Trichloroethene		RAS	59	5.0 MCL	
				Aluminum		RAS	12 B	1.0 MCL	
				Arsenic		RAS	1.6	0.050 MCL	
				Barium		RAS	1.2	1.0 MCL	
MW-445	17-Oct-93	C	6010	Cadmium		RAS	0.13	0.010 MCL	
				Chromium		RAS	0.82	0.050 MCL	
				Lead		RAS	0.41	0.050 MCL	
				Selenium		RAS	0.31	0.010 MCL	
				Aluminum		RAS	12 B	1.0 MCL	

TABLE 4 (Continued)

Well Number	Date Sampled	Sector	Method	Analyte Detected	Field Duplicate Analysis Lab	Concentration	Maximum Contaminant Level Or Action Level	Qualified Results
WJ-65	14-Oct-93	B	8010	Silver	RAS	0.18	0.050 MCL	
			7060	Arsenic	RAS	0.11	0.050 MCL	
			7421	Lead	RAS	0.13	0.050 MCL	
			7740	Selenium	RAS	0.014	0.010 MCL	
WJ-115	08-Oct-93	C	6010	Arsenic Chromium	RAS	0.22	0.050 MCL	
					RAS	0.21	0.050 MCL	
			7060	Arsenic	RAS	0.091 B	0.050 MCL	
WJ-129	17-Oct-93	C	8010	Trichloroethene	RAS	4260	5.0 MCL	
WJ-135	06-Oct-93	C	8010	Trichloroethene	RAS	11 H	5.0 MCL	
WJ-139	05-Oct-93	C	8010	1,1-Dichloroethane Trichloroethene cis-1,2-Dichloroethene	RAS RAS RAS	11 108 21	5.0 MCL 5.0 MCL 6.0 MCL	
WJ-147	08-Oct-93	B	6010	Chromium	RAS	0.11	0.050 MCL	
			7060	Arsenic	RAS	0.093 B	0.050 MCL	
WJ-153	13-Oct-93	B	8010	Tetrachloroethene Trichloroethene cis-1,2-Dichloroethene	RAS RAS RAS	6.8 67.8 7.1	5.0 MCL 5.0 MCL 6.0 MCL	G
WJ-156	06-Oct-93	B	8010	1,2-Dichloroethane Trichloroethene cis-1,2-Dichloroethene	RAS RAS RAS	0.77 133 46	0.50 MCL 5.0 MCL 6.0 MCL	
WJ-160	14-Oct-93	A	8010	Trichloroethene	RAS	73	5.0 MCL	
WJ-164	13-Oct-93	B	8010	Trichloroethene cis-1,2-Dichloroethene	RAS RAS	15 H 9.8 H	5.0 MCL 6.0 MCL	
			6010	Chromium	RAS	1.9	0.050 MCL	
WJ-165	06-Oct-93	B	8010	Trichloroethene cis-1,2-Dichloroethene	RAS RAS	125 33	5.0 MCL 6.0 MCL	
WJ-178	11-Oct-93	A	8010	Carbon Tetrachloride Trichloroethene	RAS RAS	4.8 H 45 H	0.50 MCL 5.0 MCL	
WJ-186	22-Oct-93	A	8010	Carbon Tetrachloride Trichloroethene	RAS RAS	0.58 55	0.50 MCL 5.0 MCL	

TABLE 4 (Continued)

Well Number	Date Sampled	Sector	Method	Analyte Detected	Field Duplicate Analysis	Lab	Concentration	Maximum		Qualified Results
								Contaminant Level Or Action Level	Field	
MJ-191	20-Oct-93	B	8010	Trichloroethene		RAS	25 H	5.0 MCL		
MJ-194	04-Oct-93	E	8010	Chromium Chromium	FD	RAS	1.3	0.050 MCL		
						RAS	1.4	0.050 MCL		
MJ-196	07-Oct-93	A	8010	Trichloroethene		RAS	19	5.0 MCL		
MJ-200	21-Oct-93	B	8010	Trichloroethene cis-1,2-Dichloroethene		RAS	13 H	5.0 MCL		
						RAS	12 H	6.0 MCL		
MJ-203	11-Oct-93	A	8010	Chromium		RAS	0.067 B	0.050 MCL		
						RAS	24	5.0 MCL		
MJ-207	11-Oct-93	C	6010	Chromium		RAS	3.7	0.050 MCL		
						RAS	0.20	0.050 MCL		
MJ-209	12-Oct-93	A	8010	1,2-Dichloropropane Trichloroethene cis-1,2-Dichloroethene		RAS	11 P	5.0 PMCL		
						RAS	2810 P8	5.0 MCL		
						RAS	254 P	6.0 MCL		
MJ-210	11-Oct-93	A	6010	Aluminum Chromium Lead		RAS	1.4	1.0 MCL		
						RAS	28	0.050 MCL		
						RAS	0.052	0.050 MCL		
MJ-211	11-Oct-93	A	6010	Carbon Tetrachloride		RAS	4.0	0.50 MCL		
						RAS	0.20	0.050 MCL		
MJ-214	13-Oct-93	C	8010	1,1-Dichloroethene Trichloroethene cis-1,2-Dichloroethene		RAS	13 H	5.0 MCL		
						RAS	9.9 H	5.0 MCL		
						RAS	13 H	6.0 MCL		
MJ-215	13-Oct-93	C	6010	Chromium		RAS	1.9	0.050 MCL		
						RAS	0.066	0.050 MCL		
MJ-222	12-Oct-93	A	8010	Carbon Tetrachloride Trichloroethene Carbon Tetrachloride Trichloroethene	FD	RAS	2.0 H	0.50 MCL		
						RAS	17 HB	5.0 MCL		
						RAS	1.8	0.50 MCL		
MJ-228	12-Oct-93	A	8010	1,2-Dichloroethene		RAS	13	5.0 MCL		
						RAS	36 H	0.50 MCL		
MJ-270	07-Oct-93	B	8010	Tetrachloroethene Trichloroethene		RAS	172	5.0 MCL		
						RAS	1390	5.0 MCL		

TABLE 4 (Continued)

Well Number	Date Sampled	Sector	Method	Analyte Detected	Field Duplicate Analysis	Lab	Concentration	Maximum Contaminant Level Or Action Level	Qualified Results
MW-270	07-Oct-93	B	8010	cis-1,2-Dichloroethene		RAS	38	6.0 MCL	
			6010	Chromium		RAS	0.66	0.050 MCL	
MW-271	07-Oct-93	B	8010	1,2-Dichloroethane		RAS	3.1	0.50 MCL	
				Carbon Tetrachloride		RAS	0.76	0.50 MCL	
				Trichloroethene		RAS	43	5.0 MCL	
			6010	Chromium		RAS	0.062	0.050 MCL	
MW-272	07-Oct-93	B	8010	Trichloroethene		RAS	148	5.0 MCL	
			6010	Chromium		RAS	0.086	0.050 MCL	PF
MW-282	17-Oct-93	B	8010	Carbon Tetrachloride		RAS	0.70	0.50 MCL	
				Trichloroethene	FD	RAS	31	5.0 MCL	
				Carbon Tetrachloride	FD	RAS	0.70	0.50 MCL	
				Trichloroethene	FD	RAS	38	5.0 MCL	
MW-285	17-Oct-93	B	8010	Trichloroethene		RAS	10	5.0 MCL	G
MW-286	17-Oct-93	B	8010	1,1-Dichloroethane		RAS	24	5.0 MCL	
				1,2-Dichloroethane		RAS	1.3	0.50 MCL	
				Trichloroethene		RAS	24	5.0 MCL	
				cis-1,2-Dichloroethene		RAS	25	6.0 MCL	
MW-287	17-Oct-93	B	8010	Tetrachloroethene		RAS	24	5.0 MCL	
				Trichloroethene		RAS	362	5.0 MCL	
MW-288	17-Oct-93	B	8010	Tetrachloroethene		RAS	23	5.0 MCL	
				Trichloroethene		RAS	287	5.0 MCL	
				cis-1,2-Dichloroethene		RAS	15	6.0 MCL	
MW-999	16-Oct-93	C	8010	Trichloroethene		RAS	28100	5.0 MCL	
				cis-1,2-Dichloroethene		RAS	544	6.0 MCL	
			6010	Chromium	FD	RAS	0.12	0.050 MCL	
MW-1049	20-Oct-93	B	8010	Trichloroethene	FD	RAS	14 B	5.0 MCL	
				Trichloroethene	FD	RAS	14 B	5.0 MCL	
MW-1051	15-Oct-93	B	8010	Trichloroethene		RAS	5.1 H	5.0 MCL	
MW-1054	08-Oct-93	B	8010	Trichloroethene		RAS	8.4 H	5.0 MCL	
				Trichloroethene	FD	RAS	8.4	5.0 MCL	
MW-1058	20-Oct-93	A	8010	Trichloroethene	FD	RAS	27 B	5.0 MCL	PL
				Trichloroethene	FD	RAS	29 B	5.0 MCL	

TABLE 4 (Continued)

Well Number	Date Sampled	Sector	Method	Analyte Detected	Field Duplicate Analysis	Lab	Concentration	Maximum Contaminant Level Or Action Level	Qualified Results
NU-1058	20-Oct-93	A	8010	Chromium		RAS	3.5 B	0.050 MCL	
NU-1063	13-Oct-93	A	8010	Chromium		RAS	0.14	0.050 MCL	
NU-1065	05-Oct-93	A	8010	Chromium		RAS	1.7	0.050 MCL	
				Chromium	FD	RAS	1.1	0.050 MCL	
NU-1067	20-Oct-93	A	8010	Carbon Tetrachloride		RAS	1.2 C	0.50 MCL	
				Trichloroethene		RAS	23 C	5.0 MCL	



TABLE 4 (Continued)

FOOTNOTES AND ABBREVIATIONS

DATA/CLASS:

- C = Confirmed on second column.
- H = Previously confirmed on second column or by GC/MS.
- B = Inorganic Methods - Analyte is found in the associated blank, but the sample results are not corrected for the amount in the blank.
- P = Results from primary and secondary columns differ by greater than a factor of three due to coelution or interference.

FIELD DUPLICATE ANALYSIS:

- FD = Field duplicate.

LAB:

- RAS = Radian Analytical Services, Austin.

MAXIMUM CONTAMINANT LEVEL/ACTION LEVEL:

- AL = Cal/EPA Dept. of Toxic Substances Control Action Level.
- MCL = Cal/EPA Dept. of Toxic Substances Control Maximum Contaminant Level.
- PMCL = U.S. Environmental Protection Agency Primary Maximum Contaminant Level.

WELL IDENTIFICATION:

- EC = Extraction well composite. (EC-1 is a composite of EU-73, EU-83, EU-84, EU-85, EU-86, and EU-87)
- EW = Extraction well.
- MW = Monitoring well.

QUALIFIED RESULTS:

- G = Primary and second column results differ by more than a factor of three times for method SW8010. Therefore, the lower of the two values is reported.
- PF = Qualified as estimated due to high total variability as measured by field duplicates.
- PL = Qualified as estimated due to high laboratory variability, as measured by matrix spikes/matrix spike duplicates.
- R = Detected in reagent blank.

UNITS:

- METHODS 6010, 8020 = ug/L.
- METHODS 6010, 7060, 7421, 7470, 7740 = mg/L.
- MCL FOR METHODS 6010, 8020 = ug/L.
- MCL FOR METHODS 6010, 7060, 7421, 7470, 7740 = mg/L.
- mg/L = milligrams per liter.
- ug/L = micrograms per liter.

**TABLE 5. AMBIENT BLANKS WITH ASSOCIATED WELL SAMPLES,  
GROUNDWATER SAMPLING AND ANALYSIS PROGRAM,  
OCTOBER THROUGH DECEMBER 1993,  
McCLELLAN AIR FORCE BASE**

<b>Ambient Blank</b>	<b>Date Sampled</b>	<b>Associated Wells</b>	<b>Sector</b>
AB-104 (a)	10-16-93	MW-104	D
AB-105 (a)	10-07-93	MW-105	D
AB-180	10-11-93	MW-178 Field Duplicate (b) MW-178 MW-211 Field Duplicate (b) MW-211 MW-169 (a) MW-180 MW-203	A
AB-190	10-15-93	MW-184 MW-190	C
AB-194	10-04-93	MW-194 MW-191 MW-1044 Field Duplicate (a) MW-1015 MW-1044 (a) MW-1049 Field Duplicate (a) MW-1049 (a) MW-1057 (a)	E
AB-207	10-11-93	MW-207	C
AB-233	10-20-93	EW-233	B
AB-1012	10-19-93	MW-1012	F

(a) Method SW8010 only.

(b) Method SW8020 only.

**TABLE 6. TRIP BLANKS WITH ASSOCIATED WELL SAMPLES,  
GROUNDWATER SAMPLING AND ANALYSIS PROGRAM,  
OCTOBER THROUGH DECEMBER 1993,  
McCLELLAN AIR FORCE BASE**

<b>Trip Blank ID</b>	<b>Date Sampled</b>	<b>Shipping Cooler ID</b>	<b>Associated Wells</b>
TB-1	10-20-93	B	EW-233 Field Duplicate EW-233 MW-1015 MW-1044 (a)
TB-2	10-20-93	A	MW-1058 Field Duplicate MW-1058 MW-1057 Field Duplicate MW-1057 MW-1049 (a) MW-1067 (a) MW-191
TB-3 (b)	10-21-93	B	MW-109
TB-4	10-21-93	A	MW-200 (a)
TB-5 (a)	10-22-93	A	MW-1019 MW-186 MW-68

(a) Method SW8010 only.

(b) Method SW8020 only.

**TABLE 7. SUMMARY OF QUALITY CONTROL RESULTS FOR BLANKS, GROUNDWATER SAMPLING AND ANALYSIS PROGRAM, OCTOBER THROUGH DECEMBER 1993, McCLELLAN AIR FORCE BASE**

U.S. EPA SW-846 Method	Number Performed	Total Possible Number of Occurrences	Compound (Number of Occurrences)	Range of Results
<b>Reagent Blanks</b>				
8010 (34 analytes)	35	1530	Dibromochloromethane (1) 1,2-Dichlorobenzene (1) Dibromomethane (1) Bromo Dibromochloromethane (1) 1-Chlorohexane (1) Chlorobenzene (1) Chloroethane (1) Chloromethane (5) Methylene Chloride (11) Trichloroethene (2) Trichlorofluoromethane (2) 1,1,2,2-Tetrachloroethane (2)	0.0922 µg/L 0.448 µg/L 0.733 µg/L 0.0310 µg/L 0.0497 µg/L 0.236 µg/L 0.169 µg/L 0.0317-0.0458 µg/L 0.0829-0.382 µg/L 0.0409-0.0734 µg/L 0.0765-0.110 µg/L 0.0541-0.0672 µg/L
8020 (8 analytes)	24	192	Ethylbenzene (1) Total Xylene (2) Benzene (1) Toluene (1)	0.131 µg/L 0.108-0.158 µg/L 0.0601 µg/L 0.0434 µg/L
6010 (23 analytes)	7	161	Aluminum (1) Antimony (1) Barium (1) Beryllium (2) Copper (1) Chromium (2) Iron (2) Lead (1) Manganese (4) Magnesium (1) Sodium (4) Thallium (1) Zinc (2)	0.0408 mg/L 0.0252 mg/L 0.000670 mg/L 0.000560-0.00059 mg/L 0.0240 mg/L 0.00317-0.00419 mg/L 0.0089-0.0186 mg/L 0.0309 mg/L 0.0004-0.00066 mg/L 0.0341 mg/L 0.045-0.0852 mg/L 0.0252 mg/L 0.00189-0.0033 mg/L
7060 (1 analyte)	6	6	Arsenic (1)	0.00099 mg/L
7421 (1 analyte)	6	6	Lead (4)	0.001-0.002 mg/L
7470 (1 analyte)	5	5	Mercury (1)	0.00005 mg/L
7740 (1 analyte)	6	6	No Analytes Detected	NA

TABLE 7 (Continued)

U.S. EPA SW-846 Method	Number Performed	Total Possible Number of Occurrences	Compound (Number of Occurrences)	Range of Results
<b>Trip Blanks</b>				
8010 (34 analytes)	5	170	No Analytes Detected	NA
8020 (8 analytes)	4	32	No Analytes Detected	NA
<b>Ambient Blanks</b>				
8010 (34 analytes)	8	272	Methylene Chloride (1) 1,1,1-Trichloroethane (1)	0.377 B,T µg/L 0.205 µg/L
8020 (8 analytes)	6	48	Toluene (3)	0.0660 T-0.219 T µg/L
<b>Equipment Blanks</b>				
8010 (34 analytes)	9	306	Methylene Chloride (3) Trichloroethene (2)	0.213 T,B-0.335 B µg/L 0.0674 B-3.99 B µg/L
8020 (8 analytes)	6	48	No Analytes Detected	NA
6010 (23 analytes)	3	69	Aluminum (2) Barium (1) Calcium (1) Chromium (1) Cobalt (2) Copper (1) Iron (3) Magnesium (1) Manganese (2) Nickel (1) Potassium (1) Sodium (3) Thallium (1) Vanadium (1) Zinc (2)	0.0333 B-0.0648 mg/L 0.0946 mg/L 28.8 mg/L 0.0298 mg/L 0.00349-0.0118 mg/L 0.0125 mg/L 0.00658 B-1.10 mg/L 23.5 mg/L 0.00280 B-0.242 mg/L 1.14 mg/L 8.07 mg/L 0.217 B-25.2 mg/L 0.0219 mg/L 0.0108 mg/L 0.00256 B-0.0467 mg/L
7060 (1 analyte)	3	3	No Analytes Detected	NA
7421 (1 analyte)	3	3	Lead (3)	0.00110-0.0401 B mg/L
7470 (1 analyte)	3	3	Mercury (1)	0.00008 mg/L
7740 (1 analyte)	3	3	Selenium (1)	0.000860 S mg/L

**TABLE 7 (Continued)**

**NOTE:** Some concentration values in ranges may have associated flags; see individual result tables.

**NA** = Not applicable.

**B** = Analyte detected in reagent blanks, but concentration not corrected for the amount found in the reagent blank.

**S** = Result obtained by method of standard addition.

**T** = Second column analysis not required.

**mg/L** = Milligrams per liter.

**µg/L** = Micrograms per liter.

**TABLE 8. SUMMARY OF QUALITY CONTROL RESULTS FOR DUPLICATES,  
GROUNDWATER SAMPLING AND ANALYSIS PROGRAM,  
OCTOBER THROUGH DECEMBER 1993, McCLELLAN AFB**

U.S. EPA SW-846 Method	Number Performed	Number of Detected Pairs (= Number of Possible Results)	Compound	Range of Results RPD (%)	Acceptance Criteria <sup>a</sup> RPD (%)	Results Not Meeting Criteria <sup>b</sup>
<b>Duplicate Samples</b>						
8010	11	30	Varies	0.6-188	30	7
8020	7	9	Varies	0-62	30	1
6010	7	90	23 Metals	0-128	50	14
7060	7	5	Arsenic	8-53	50	1
7421	7	6	Lead	0-90	50	5
7470	7	2	Mercury	13-150	50	1
7740	7	1	Selenium	84	50	1
<b>Matrix Spike Duplicates</b>						
8010	36	324	9 Compounds	0-50	30	2
8020	27	108	4 Compounds	0-14	30	0
6010	7	161	23 Metals	0-12	20	0
7060	6	6	Arsenic	1-7	20	0
7421	7	7	Lead	1-10	20	0
7470	5	5	Mercury	0-4	20	0
7740	8	8	Selenium	0-7	20	0

<sup>a</sup> The acceptance criteria represent the upper acceptable bound of the RPD (%) for duplicates.

<sup>b</sup> Refers to individual analytical results, not overall sample results.

RPD = Relative Percent Difference

**TABLE 9. SUMMARY OF QUALITY CONTROL RESULTS FOR SPIKES,  
GROUNDWATER SAMPLING AND ANALYSIS PROGRAM,  
OCTOBER THROUGH DECEMBER 1993, McCLELLAN AFB**

U.S. EPA SW-846 Method	Number Performed	Total Possible Number of Results	Compound	Range of Results Recovery (%)	Acceptance Criteria <sup>a</sup> Recovery (%)	Results Not Meeting Criteria <sup>b</sup>
<b>Matrix Spikes</b>						
8010	72	648	9 Analytes	37-155	Varies	1
8020	54	216	4 Analytes	82-124	Varies	0
6010	14	322	23 Metals	46-117	80-120	9
7060	12	12	Arsenic	88-117	80-120	0
7421	14	14	Lead	46-103	80-120	6
7470	14	14	Mercury	94-107	80-120	0
7740	16	16	Selenium	52-100	80-120	10

<sup>a</sup> The acceptance criteria represent the upper acceptable bound of the relative percent difference (RPD) (%) for duplicates.

<sup>b</sup> Refers to individual analytical results, not overall sample results.



**TABLE 10. SUMMARY OF QUALIFIED DATA, GROUNDWATER SAMPLING AND ANALYSIS PROGRAM, OCTOBER THROUGH DECEMBER 1993, McCLELLAN AIR FORCE BASE**

Sample Number	U.S. EPA Method	Analyte(s)	Type of Qualification	Reason
AB-104	8010	Methylene Chloride, 1,1,1-Trichloroethane	G	Second column result used as primary record
AB-1012	8010	Trichloroethene	G	Second column result used as primary record
EB-153	8010	1,1,1-Trichloroethane	G	Second column result used as primary record
EB-271	8010	Trichloroethene	G	Second column result used as primary record
EB-1061	8010	1,1,1-Trichloroethane	G	Second column result used as primary record
EC-1	8010	Tetrachloroethene	G	Second column result used as primary record
	8020	1,4-Dichlorobenzene	PF	Poor RPD between field duplicates
		Ethylbenzene, Toluene, Total Xylenes	G	Second column result used as primary record
EC-1 (Field duplicate)	8020	Toluene	G	Second column result used as primary record
EW-140	6010	Manganese	R	Detected in reagent blank
	7060	Arsenic	R	Detected in reagent blank
	7421	Lead	R	Detected in reagent blank
	8020	Total Xylenes	G	Second column result used as primary record
EW-141	6010	Manganese	R	Detected in reagent blank
	7060	Arsenic	R	Detected in reagent blank
EW-144	7060	Arsenic	R	Detected in reagent blank
	8010	Methylene Chloride	R	Detected in reagent blank
	7421	Lead	R	Detected in reagent blank
EW-233	6010	Chromium, Iron	R	Detected in reagent blank
		Iron, Potassium	PF	Poor RPD between field duplicates
	7421	Lead	R	Detected in reagent blank
EW-234	7060	Arsenic	R	Detected in reagent blank
	8010	Methylene Chloride	R	Detected in reagent blank
MW-27D	8020	All first column results	M	Surrogate out
		Chlorobenzene	G	Second column result used as primary record
MW-41S	7421	Lead	R	Detected in reagent blank

TABLE 10 (Continued)

Sample Number	U.S. EPA Method	Analyte(s)	Type of Qualification	Reason
MW-44S	6010	Lead	R	Detected in reagent blank
MW-104	6010	Aluminum, Manganese	R	Detected in reagent blank
	8020	Toluene	R	Detected in reagent blank
MW-105	8010	Methylene Chloride	R	Detected in reagent blank
MW-109	6010	Chromium, Iron, Manganese, Zinc	PF	Poor RPD between field duplicates
		Beryllium, Chromium, Iron	R	Detected in reagent blank
	7421	Lead	PF,R	Poor RPD between field duplicates, detected in reagent blank
MW-112	8020	Benzene, Total Xylenes	G	Second column result used as primary record
MW-129	6010	Chromium, Iron	R	Detected in reagent blank
MW-130	7470	Mercury	R	Detected in reagent blank
	8010	1,1-Dichloroethane, 1,1-Dichloroethene, Methylene Chloride	G	Second column result used as primary record
MW-134	8010	Methylene Chloride	G	Second column result used as primary record
MW-135	8010	Methylene Chloride	R	Detected in reagent blank
MW-139	8010	1,2-Dichloroethane Methylene Chloride	G	Second column result used as primary record
MW-149	8010	Methylene Chloride	R	Detected in reagent blank
MW-150	8010	Trichloroethene, Tetrachloroethene	PF	Poor RPD between field duplicates
		Chloromethane, Methylene Chloride	R	Detected in reagent blank
MW-150 (Field duplicate)	8010	Tetrachloroethene	G	Second column result used as primary record
MW-152	8010	Methylene Chloride	R	Detected in reagent blank
MW-153	8010	Methylene Chloride	R	Detected in reagent blank
		1,2-Dichloroethane, cis-1,2-Dichloroethene	G	Second column result used as primary record
MW-156	8010	1,1-Dichloroethane, Methylene Chloride	G	Second column result used as primary record
MW-164	6010	Thallium	R	Detected in reagent blank

TABLE 10 (Continued)

Sample Number	U.S. EPA Method	Analyte(s)	Type of Qualification	Reason
MW-228	8010	Methylene Chloride	R	Detected in reagent blank
MW-270	7470	Mercury	R	Detected in reagent blank
	8010	Methylene Chloride	G	Second column result used as primary record
MW-271	7470	Mercury	R	Detected in reagent blank
	8010	Tetrachloroethene, Methylene Chloride	G	Second column result used as primary record
MW-272	6010	Aluminum, Chromium, Iron	PF	Poor RPD between field duplicates
	7740	Selenium	PF	Poor RPD between field duplicates
	7060	Arsenic	PF	Poor RPD between field duplicates
	7470	Mercury	R	Detected in reagent blank
	7421	Lead	PF	Poor RPD between field duplicates
	8010	Chloromethane, Methylene Chloride	G	Second column result used as primary record
MW-282	8010	Chloroform, Tetrachloroethene, Methylene Chloride	PF	Poor RPD between field duplicates
			R,PF	Detected in reagent blank, poor RPD between field duplicates
	8020	Toluene	R	Detected in reagent blank
MW-283	8010	Bromodichloromethane, Trichloroethene	R	Detected in reagent blank
			G	Second column result used as primary record
	8020	1,2-Dichlorobenzene	G	Second column result used as primary record
MW-284	8020	Toluene	R	Detected in reagent blank
MW-285	8010	Methylene Chloride, Trichloroethene	R	Detected in reagent blank
			G	Second column result used as primary record
	8020	Toluene, Total Xylenes	R	Detected in reagent blank
MW-286	8010	Methylene Chloride, 1,2-Dichloropropane	R	Detected in reagent blank
			G	Second column result used as primary record
	8020	Toluene	R	Detected in reagent blank
MW-287	8020	Toluene	R	Detected in reagent blank

TABLE 10 (Continued)

Sample Number	U.S. EPA Method	Analyte(s)	Type of Qualification	Reason
MW-165	6010	Barium, Sodium	R	Detected in reagent blank
	7421	Lead	O	Detected in equipment blank
	7740	Selenium	O	Detected in equipment blank
	8010	1,2-Dichloroethane, Methylene Chloride	G	Second column result used as primary record
MW-169	8010	Chloroethylvinylether	PL	Poor RPD between LCS/LCD
MW-178	8010	Chloroethylvinylether	PL	Poor RPD between LCS/LCD
MW-180	7421	Lead	R	Detected in reagent blank
	8010	Chloroethylvinylether	PL	Poor RPD between LCS/LCD
MW-184	6010	Aluminum	R	Detected in reagent blank
		Cobalt, Iron	O	Detected in equipment blank
	7421	Lead	O	Detected in equipment blank
MW-186	7421	Lead	M	Low MS recovery
MW-190	6010	Calcium, Iron, Sodium, Magnesium, Zinc	M	Low MS recovery
		Aluminum	R	Detected in reagent blank
MW-194	7421	Lead	PF,R	Poor RPD between field duplicates, detected in reagent blank
MW-198	8010	Methylene Chloride	R	Detected in reagent blank
MW-200	7421	Lead	R	Detected in reagent blank
MW-203	7421	Lead	R	Detected in reagent blank
	8010	Chloroethylvinylether	PL	Poor RPD between LCS/LCD
		Methylene Chloride	G	Second column result used as primary record
MW-207	7421	Lead	R	Detected in reagent blank
	8010	1,2-Dichloroethane, Trichloroethene	G	Second column result used as primary record
MW-209	6010	Thallium	O	Detected in equipment blank
	7421	Lead	O	Detected in equipment blank
	8010	Chloromethane	G	Second column result used as primary record
MW-210	8010	1,1-Dichloroethene	G	Second column result used as primary record
MW-211	7421	Lead	R	Detected in reagent blank
	8010	Carbon Tetrachloride, Methylene Chloride	G	Second column result used as primary record
MW-214	7421	Lead	M	Low MS recovery

TABLE 10 (Continued)

Sample Number	U.S. EPA Method	Analyte(s)	Type of Qualification	Reason
MW-999	6010	Aluminum, Chromium	PF	Poor RPD between field duplicates
	7421	Aluminum, Zinc Lead	R PF	Detected in reagent blank Poor RPD between field duplicates
MW-1012	6010	Chromium, Iron	R	Detected in reagent blank
	7421	Lead	R	Detected in reagent blank
MW-1019	8010	Methylene Chloride, Tetrachloroethene	G	Second column result used as primary record
MW-1024	6010	Aluminum	R	Detected in reagent blank
MW-1031	6010	Iron	R	Detected in reagent blank
	7421	Lead	R	Detected in reagent blank
MW-1049	8010	Methylene Chloride	G	Second column result used as primary record
MW-1049 (Field Duplicate)	8010	Methylene Chloride	G	Second column result used as primary record
MW-1050	7421	Lead	PF	Poor RPD between field duplicates
	6010	Iron	PF	Poor RPD between field duplicates
MW-1053	8010	Methylene Chloride	R	Detected in reagent blank
MW-1057	8010	Chloromethane	R	Detected in reagent blank
		Methylene Chloride, Trichloroethene	PF	Poor RPD between field duplicates
MW-1057 (Field Duplicate)	8010	Methylene Chloride	G	Second column result used as primary record
MW-1058	8010	Trichloroethene	PL	Poor RPD between MS/MSD
		Methylene Chloride	G	Second column result used as primary record
	6010	Beryllium	R	Detected in reagent blank
MW-1058 (Field duplicate)	8010	Methylene Chloride	G	Second column result used as primary record
MW-1061	8010	Methylene Chloride	R	Detected in reagent blank

TABLE 10 (Continued)

Sample Number	U.S. EPA Method	Analyte(s)	Type of Qualification	Reason
MW-1063	6010	Thallium	R	Detected in reagent blank
	7421	Lead	M	Low MS recovery
MW-1065	7470	Mercury	PF	Poor RPD between field duplicates
	7421	Lead	PF	Poor RPD between field duplicates
	6010	Aluminum, Molybdenum	PF	Poor RPD between field duplicates
MW-1067	8010	All first column results	M	Surrogate out
		All compounds	G	Second column result used as primary record

AB = Ambient blank.  
 EC = Extraction well composite.  
 EW = Extraction well.  
 G = Qualified to note the use of second column result used as primary record.  
 LCS/LCD = Laboratory Control Sample/Laboratory Control Duplicate.  
 M = Qualified due to unacceptable surrogate recovery.  
 MW = Monitoring well.  
 MS = Matrix spike.  
 O = Detected in a field blank.  
 PF = Qualified as estimated due to high total variability, as measured by field duplicates.  
 PL = Qualified as estimated due to high total variability, as measured by laboratory duplicates.  
 R = Detected in reagent blank.  
 RPD = Relative percent difference.

Table 11 WELLS SCHEDULED AND ANALYSES TO BE PERFORMED,  
GROUNDWATER SAMPLING AND ANALYSIS PROGRAM,  
JANUARY THROUGH JUNE 1994, McCLELLAN AIR FORCE BASE

WELL #	1Q94			2Q94		
	Method 8010	Method 8020	Methods 6010,7060 7421,7470	Method 8010	Method 8020	Methods 6010,7060 7421,7470
			7740			7740
EC 1	X	X	X	X	X	X
EW 137	X	X	X	X	X	X
EW 140	X	X	X	X	X	X
EW 141	X	X	X	X	X	X
EW 144	X	X	X	X	X	X
EW 233	X	X	X	X	X	X
EW 234	X	X	X	X	X	X
MW 7						
MW 10				X	X	X
MW 11						
MW 12						
MW 14				X	X	X
MW 15						
MW 19d	X		X			
MW 20d						
MW 21d				X		
MW 22d						
MW 23d	X		X			
MW 24d						
MW 25d						
MW 26d	X					
MW 27d	X					
MW 28d				X	X	
MW 29d						
MW 33s						
MW 41s	X		X	X		X
MW 44s						
MW 51						
MW 52						
MW 53				X	X	X
MW 54				X	X	X
MW 55						
MW 57						
MW 58	X		X			
MW 59						
MW 60				X	X	
MW 61						
MW 62						
MW 63	X		X			
MW 64	X					
MW 65						
MW 66						
MW 68						
MW 69						

Table 11 (Continued)

WELL #	1Q94			2Q94		
	Method 8010	Method 8020	Methods 6010,7060	Method 8010	Method 8020	Methods 6010,7060
			7421,7470 7740			7421,7470 7740
MW 71						
MW 72						
MW 74						
MW 75						
MW 76						
MW 88						
MW 89				X	X	X
MW 90				X	X	X
MW 91						
MW 92				X	X	X
MW 101			X			
MW 102				X		
MW 103						
MW 104						
MW 105						
MW 107				X	X	
MW 109						
MW 110						
MW 111						
MW 112			X			
MW 115						
MW 117						
MW 118						
MW 119						
MW 122						
MW 128						
MW 129						
MW 130						
MW 131						
MW 132						
MW 134						
MW 135				X	X	X
MW 139						
MW 143						
MW 145						
MW 146						
MW 147						
MW 148	X					
MW 149				X	X	
MW 150	X		X	X		
MW 151				X		
MW 152	X			X		
MW 153	X		X	X		X
MW 154	X					



Table 11 (Continued)

WELL #	1Q94			2Q94		
	Method 8010	Method 8020	Methods 6010,7060	Method 8010	Method 8020	Methods 6010,7060
			7421,7470 7740			7421,7470 7740
MW 155						
MW 156	X					
MW 157	X	X	X			
MW 158	X	X	X			
MW 159	X	X	X			
MW 160			X			
MW 161						
MW 162						
MW 163	X					
MW 164				X	X	X
MW 165						
MW 166						
MW 167						
MW 169	X			X		
MW 170				X	X	
MW 171	X					
MW 172						
MW 173						
MW 174				X	X	
MW 175				X	X	
MW 176				X	X	
MW 177	X		X			
MW 178				X	X	X
MW 179				X		
MW 180						
MW 181	X					
MW 182					X	X
MW 183						
MW 184						
MW 185						
MW 186						
MW 187						
MW 188	X					
MW 189						
MW 190						
MW 191			X	X	X	
MW 192						
MW 193						
MW 194						
MW 195						
MW 196						
MW 197	X			X		
MW 198				X		
MW 199				X	X	

Table 11 (Continued)

WELL #	1Q94			2Q94		
	Method 8010	Method 8020	Methods 6010,7060	Method 8010	Method 8020	Methods 6010,7060
			7421,7470 7740			7421,7470 7740
MW 200	X		X			
MW 201				X	X	X
MW 202						
MW 203						
MW 204						
MW 205						
MW 206						
MW 207						
MW 208						
MW 209						
MW 210	X			X		X
MW 211						
MW 212	X	X		X	X	
MW 213						
MW 214				X	X	X
MW 215						
MW 216						
MW 217						
MW 218	X		X	X		
MW 219						
MW 220						
MW 221						
MW 222	X			X		X
MW 223						
MW 224						
MW 225						
MW 226						
MW 227						
MW 228	X	X		X	X	X
MW 229				X	X	
MW 230						
MW 235				X	X	X
MW 236	X	X	X			
MW 270	X	X	X	X	X	X
MW 271	X	X	X	X	X	X
MW 272	X	X	X	X	X	X
MW 281				X	X	X
MW 282				X	X	X
MW 283				X	X	X
MW 284				X	X	X
MW 285				X	X	X
MW 286				X	X	X
MW 287				X	X	X
MW 288				X	X	X

Table 11 (Continued)

WELL #	1Q94			2Q94		
	Method 8010	Method 8020	Methods 6010,7060 7421,7470 7740	Method 8010	Method 8020	Methods 6010,7060 7421,7470 7740
MW 999	X	X	X	X	X	X
MW 1000	X					
MW 1001				X		
MW 1002				X	X	X
MW 1004						
MW 1005						
MW 1009			X			
MW 1010						
MW 1011						
MW 1012						
MW 1014						
MW 1015						
MW 1016				X		
MW 1018			X	X		
MW 1019	X			X		
MW 1020	X					
MW 1021	X		X	X		
MW 1022	X					
MW 1023						
MW 1024	X					
MW 1025	X					
MW 1026						
MW 1027						
MW 1028	X		X			
MW 1029						
MW 1031						
MW 1032						
MW 1035						
MW 1036						X
MW 1037						
MW 1038						
MW 1039						
MW 1041	X					
MW 1042	X		X			
MW 1043	X					
MW 1044	X		X	X		
MW 1045	X	X				
MW 1046	X					
MW 1047	X					
MW 1048						
MW 1049	X			X		X
MW 1050	X	X				
MW 1051	X			X		
MW 1052	X					

Table 11 (Continued)

WELL #	1Q94			2Q94		
	Method 8010	Method 8020	Methods 6010,7060	Method 8010	Method 8020	Methods 6010,7060
			7421,7470 7740			7421,7470 7740
MW 1053	X			X		
MW 1054	X	X		X		
MW 1055	X	X				X
MW 1056	X	X				
MW 1057	X			X		
MW 1058	X			X		
MW 1059	X					
MW 1060	X			X	X	
MW 1061	X	X		X	X	X
MW 1062						
MW 1063						
MW 1064						X
MW 1065	X					
MW 1066	X					
MW 1067	X				X	
MW 1068	X					X
MW 1069				X		

**WELL IDENTIFICATION:**

EW = Extraction Well

MW = Monitoring Well

1Q94 = First Quarter 1994

2Q94 = Second Quarter 1994

## REFERENCES

Radian Corporation, 1992. "Installation Restoration Program McClellan Air Force Base: Quality Assurance Project Plan." Final. August.

U.S. Environmental Protection Agency, 1986. *Test Methods for Evaluating Solid Waste, Third Edition*. Office of Solid Waste and Emergency Response. Washington, D.C. 20460. November.